

LITHUANIA

YOU
PARTNER

IN RESEARCH AND
EXPERIMENTAL
DEVELOPMENT


VILNIUS
2006



Editors

Ministry of Education and Science of the Republic of Lithuania
Based on the provided by universities, research institutes and
other entities

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INTRODUCTION

Lithuanian Research and Experimental Development (R&D) System



Statistics

Area: 65,200 sq. km

Population: 3,425,500 (as of July 2004)

Ethnic groups: Lithuanian 83.0%, Polish 6.7%, Russian 6.3%

GDP: 17.9 billion € (2003) 1 € = 3.4528 LTL

GDP - per capita: 5220 € (2004)

GDP - real growth rate: 6.7 % (2004)

GDP - composition by sector: industry 31.3%, agriculture 6.1%, services 62.6%

After Lithuania's accession to the European Union and NATO, it became totally open to the world and encountered all challenges of globalisation. Globalisation introduces wide markets and provides simpler access to new technologies and capital.

We are happy to state that over the recent few years, Lithuania has been undergoing moderate but stable growth of the main national indicators of the R&D system. Total national expenses for R&D have increased from 0.66 per cent of GDP in 2002 to 0.76 per cent of GDP in 2004. In the business sector, expenses for R&D have increased from 0.11 to 0.16 per cent of GDP respectively. The quantity of research publications included into the list of Institute of Scientific Informatikon (USA) has increased from 199 (in 2002) to 304 (in 2005) for one million residents.

Lithuania comes forward on evolving the knowledge society, following the way of concerted development, building up and elaborating modern, dynamic and competitive economy.

New acceleration for the growth of the national research and experimental development system will be provided by the implementation programme of the National Lisbon Strategy approved at the end of 2005. Similarly to the Lisbon Strategy itself, the programme includes a range of instruments stimulating research and experimental development at national level.

R&D Structure

Lithuania has an elaborated potential of applied research in different fields as well as a system of research and higher education institutions. Lithuania offers a sufficient variety of research directions and adequate concentration of industry and science, therefore we have favourable potentials to implement, improve and develop new technologies, to synthesize knowledge from different fields and generate original products in the light of cooperation between science and business.

Expert Institutions

The following expert institutions play the role of a bridge between the political level (Parliament) and executive level (Government): Science Council of Lithuania and Lithuanian Academy of Sciences.

- Commission on Science, Technology and Innovation Development chaired by the Prime Minister and established on March 22, 2005.
- Science Council of Lithuania and Lithuanian Academy of Sciences serve as a scientific adviser and consultant to the Parliament and Government on strategic issues of research and higher education. They analyze the situation in the research and higher education system of Lithuania, make proposals and drafts decrees to the Ministry of Education and Science.

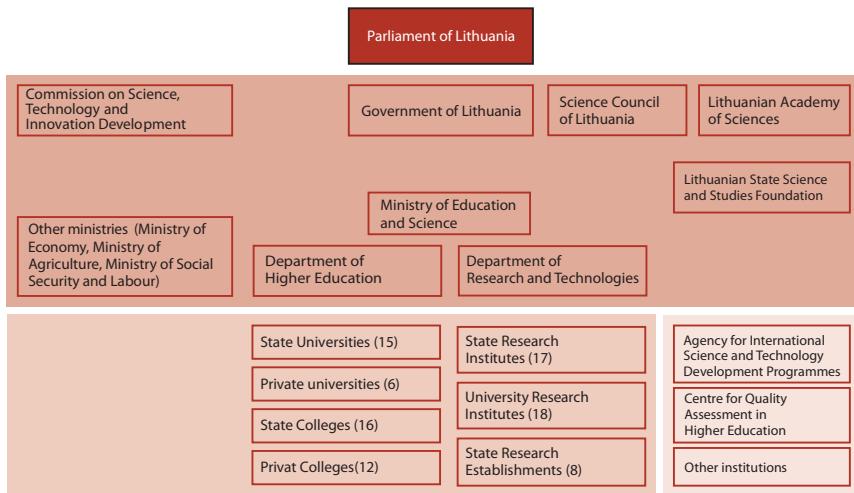


Fig. 1. R&D institutions in Lithuania

Lithuanian R&D system consists of the following:

- 15 state universities
- 17 state research institutes
- 18 university research institutes
- 8 state research establishments

Sector of Higher Education

In order to ensure the quality of studies, one third of research and experimental development research is carried out at universities.

Sector of Institutes

University research institutes carry out research of high international quality. They focus mainly on basic research and provide the research basis for university education and doctoral studies.

State research institutes established to carry out long-term research of international quality important for the Lithuanian economy, culture and international cooperation: research involving groups of specialized scientists and requiring data collection and specialized experimental instruments. Guidelines for research are provided by the Ministry of Higher Education and Science.

State research establishments that focus on carrying out applied research and experimental development activities important for the Lithuanian economy, culture and development of industry.

Financing

In Lithuania, the major part of research and technological development (both applied and fundamental) is financed from the Lithuanian State Budget. Practically, all the funds are allocated to state institutions of science and studies applying the technique that considers the quantitative indicators (the number of research publications, etc.) of the last few years.

For national programmes including priority research directions, and for other research carried out under the programme financing selected through the tender process, a minor part (less than 10 per cent) from the State Budget is allocated.

Participation in International Activities

Lithuania's participation in the joint research and experimental development programmes of the European Union has been continuously growing. Within the period of participation in the 5th Framework Programme (1999 – 2002), EU contribution for the Lithuanian research and experimental development system totalled EUR 10.4 million. As of May, 2006, within the period of participation in the 6th Framework Programme (2002 – 2006) the amount of contracts signed by the institutions of the national research and experimental development system totalled EUR 18 million.

Legal Basis and Administrative Regulation

The legal basis of R&D comprises the Law on Research and Higher Education adopted in 1991 and revised in 2002, as well as the Law on Higher Education (2002). The Law on Research and Higher Education determines the legal basis for establishment and activity of research institutions.

R&D GOVERNING INSTITUTIONS

Commission on Science, Technology and Innovation Development

Gedimino 11, LT-01103 Vilnius • <http://www.lrvk.lt> • Office of the Prime Minister serves as a secretariat to the Commission.

Division of Education, Science and Culture

Phone: +370 5 266 3754 • Fax: +370 5 266 3847 • Email: l.vingelis@lrvk.lt

The Commission is an advisory institution to the Government. It discusses and advises the Government on the issues of formation and implementation of the policy and strategy of the development of applied research, technologies and innovation to fulfil the needs of the national economy by promoting interaction between research, production and business.

Ministry of Education and Science of the Republic of Lithuania

A. Volano 2/7, LT-01516 Vilnius • <http://www.smm.lt> • Phone: +370 5 274 3125 • Fax: +370 5 261 2077 • Email: ministras@smm.lt

Department of Science and Technologies

Z. Sierakausko 15, LT-03105 Vilnius • Phone: +370 5 266 3444 • Fax: +370 5 266 3466 • Email: msd@mokslas.lt

▪ The Ministry performs:

Formation and implementation of the State policy in research and experimental development

Coordination of the activities of the research and higher education institutions

Organization of the State promotion and regulation of intellectual creation in the field of research and higher education

Submission of propositions on the establishment, reorganization and/or closure of research institutions to the Government of the Republic of Lithuania

Drafting of decisions on the allocation of State budget funds to the institutions of research and higher education

Organization of assessment of the activities of the institutions of research and higher education

Submission of propositions on the development of the priority directions of R&D to the Government of the Republic of Lithuania

Ministry of Economy of the Republic of Lithuania

Gedimino 38/2, LT-01104 Vilnius • <http://www.ukmin.lt> • Phone: +370 5 262 2416 • Fax: +370 5 262 3974 • Email: ministras@ukmin.lt

Industry and Business Department

Phone: +370 5 262 8904 • Email: j.martinonis@ukmin.lt

▪ The Ministry performs:

Development and implementation of innovation and technology development policy in Lithuania and coordination of its implementation.

Development of business environment and business support infrastructure: development of science and technology parks, innovation centres, business incubators and business information centres. Incentive and support for company innovation and R&D activities.

Analysis of the policy of innovation development and the samples of benchmarking in the EU and other countries. Submission of suggestions to the Commission on Science, Technology and Innovation Development for implementation of innovation policy measures in Lithuania

Ministry of Agriculture of the Republic of Lithuania

Gedimino 19, LT-01103 Vilnius • <http://terra.zum.lt/min/> • Phone: +370 5 239 1000 • Fax: +370 5 239 1212 • Email: ministras@zum.lt

Department of Rural Development

Phone: +370 5 239 1020 • Fax: +370 5 239 1022 • Email: agromokslas@zum.lt

▪ The Ministry:

Organizes and coordinates applied research in the fields of agriculture, food industry and fisheries, which is necessary for the implementation of the Strategy of Agriculture and Rural Development and for the formation of regional and structural policies in agriculture and fisheries.

Coordinates the activities of the Council of Agricultural Science, participates in the Committee of Agricultural Research of the European Commission and other European organizations.

Ministry of Social Security and Labour of the Republic of Lithuania

A. Vivulskio 11, LT-03610 Vilnius • <http://www.socmin.lt> • Phone: +370 5 266 4201 • Fax: +370 5 266 4209 • Email: post@socmin.lt

Social Policy Analysis and Forecasting Department

Phone: +370 5 266 4213 • Email: vsafjan@socmin.lt

The Ministry organizes the research necessary for implementation and monitoring of social and labour policy.

Information Society Development Committee under the Government of the Republic of Lithuania

Gedimino 56, LT-01110 Vilnius • <http://www.ivpk.lt> • Director: Aurimas Matulis • Phone: +370 5 266 5160 • Fax: +370 5 266 5180 • Email: a.matulis@ivpk.lt

▪ The Committee:

Plans the development of state information resources and innovations
Considers innovation applicability and coordinates information resources and information management in the state enterprises
Develops organizational management structure of innovations
Participates in development of the innovation trends and users' education policy
Cooperates with Lithuanian and foreign centres and experts related to the development, testing, production and implementation of information technologies and devices as well as supports the implementation and usage of advanced information technologies
Provides useful information to enterprises about EU financing programmes and initiatives related to innovation development
Supports business innovations, identifies the perspectives of the development of business consultancy
Supports innovation in the public sector and the Government
Participates in the establishment and the activities of the innovation centres and business incubators

Lithuanian State Science and Studies Foundation

A. Goštauto 12-407, LT-01108 Vilnius • <http://www.vmsfondas.lt> • Director: Dr. Sigitas Renčys • Phone: +370 5 263 9152 • Fax: +370 5 263 9153 • Email: vfondas@ktl.mii.lt

▪ The Foundation:

Funds research and experimental development activities through organization of competition under following trends: scientific research and experimental development projects in line with priorities of Lithuanian scientific research and experimental development as approved by the Government of the Republic of Lithuania and the projects under the programmes approved by the Government of the Republic of Lithuania, therefrom – the Program of the Development of High Technologies; initiated by the Foundation topical to the state scientific research (programmes), therefrom – programmes ordered by Ministries and others; scientific projects submitted by the groups of researchers and /or individual researchers; research projects implemented by research and higher education institutions according to the contracts with business entities; research and higher education institutions scientific research and programmes under international agreements; scientific monographic studies and other scientific works; scientific conferences, symposia and other scientific events; grants for students of doctoral studies

actively engaged in scientific research. The Foundation organizes competitions for specific scientific research or scientific activity under sponsor request. The Foundation organizes submitted applications and their evaluation work; submit shapes and continually renews in Humanities, Social, Biomedicine, Physical and Biotechnology sciences experts database.

From 2004 the foundation is a member of the European Science Foundation.

Centre for Quality Assessment in Higher Education

Suvalkų 1, LT-03106 Vilnius • <http://www.skvc.lt> • Director: Dr. Eugenijus Stumbrys • Phone: +370 5 210 4777 • Fax: +370 5 213 2553 • Email: skvc@skvc.lt

▪ The Centre:

Assesses the quality of higher education, the level of research, evaluates the applications for the establishment of research and higher education institutions, assesses study programmes before including them into the State Register

Selects higher education textbooks for awards

Coordinates the self-analysis process in institutions of research and higher education, gives them recommendations for the quality improvement, takes part in drafting of legislation on research and higher education

Participates in EU *acquis communautaire* on mutual recognition of professional qualifications, evaluates higher education qualifications acquired abroad, participates in the projects developing a European higher education and research area

Gives consultations regarding Lithuanian and foreign education systems

Disseminates international good practices on recognition of qualifications and quality assurance, publicizes assessment issues

▪ The Centre participates in:

ENIC/NARIC (European Network of National Information Centres / Network of National Academic Recognition Information Centres)

ENQA (European Network for Quality Assurance in Higher Education)

INQAAHE (International Network for Quality Assurance Agencies in Higher Education)

ERA-MORE (European Network of Mobility Centres)

CEE (Council for Environmental Education)

NAFSA (Association of International Educators)

EaIE (European Association for International Education)

EAIR (European Higher Education Society Linking Research, Policy and Practice)

Agency for International Science and Technology Development Programmes in Lithuania

A. Goštauto 12-219, LT-01108 Vilnius • <http://www.tpa.lt> • Director: Birutė Bukauskaitė • Phone: +370 5 264 4708 • Fax: +370 5 231 2292 • Email: tpa@ktl.mii.lt

▪ The Agency:

Is responsible for administration and coordination of the EU Sixth Framework Programme, EURATOM, EU Security Research Programme, EUREKA, COST, cooperation with EU Joint Research Center and preparation actions for EU Seventh Framework Programme as well as other programmes and activities in Lithuania related to international cooperation in R&D.

Plays an active role in strengthening Lithuanian participation in international R&D programmes by providing suggestions to R&D policy makers.

Promotes cooperation between academic and industrial communities and propagates R&D activities to the general public

State Metrology Service

Algirdo 31, LT-03219 Vilnius • <http://www.lvmt.lt> • Director: Osvaldas Staugaitis • Phone: +370 5 213 3349 • Fax: +370 5 216 3469 • Email: info@lvmt.lt

The Service together with the state standard laboratories acts as a national metrology institute. The Service coordinates the development and maintenance of state measurement standards, extension of calibration capabilities; furthermore, the Service ensures the traceability of measurements to the SI units.

Lithuanian Bioethics Committee

Vilniaus 33, LT-01119 Vilnius • Chairman: Eugenijus Gefenas • Phone: +370 5 212 4565 • Fax: +370 5 212 4565 • Email: bek@sam.lt

The Committee issues the approvals to carry out biomedical research and is responsible for the ethical supervision of biomedical research in the country.

The State Patent Bureau of the Republic of Lithuania

Kalvarijų 3, LT-09310 Vilnius • <http://www.vpb.gov.lt> • Director: Rimvydas Naujokas • Phone: +370 5 278 0250 • Fax: +370 5 275 0723 • Email: spb@vpb.gov.lt

The Bureau is the executive body of the Republic of Lithuania carrying out the state legal protection of industrial property objects (inventions, designs, trademarks, semiconductor product topographies).

R&D EXPERT INSTITUTIONS AND SCIENTIFIC ORGANIZATIONS

Science Council of Lithuania

Gedimino 3, LT-01103 Vilnius • <http://www.lmt.lt> • Chairman: Prof. Habil. Dr. Eugenijus Butkus •
Phone: +370 5 262 5626; +370 5 212 4933 • Fax: +370 5 261 8535 • Email: violamt@ktl.mii.lt

▪ The Science Council:

Is a scientific consultant of the Seimas (the Parliament) and the Government on the research, higher education and experimental development policy.

▪ Directs its activity to encourage the research community:

To create and maintain an efficient, competitive and socially-oriented system of research and higher education

To use efficiently the state budget funds for research and experimental development, higher education and cultural development

To assist in development of knowledge-based economy

To develop civic society

To stimulate cooperation between research and business, increase the competitive ability of Lithuanian economy in the world

Lithuanian Academy of Sciences

Gedimino 3, LT-01103 Vilnius • <http://www.lma.lt> • President: Prof. Habil. Dr. Zenonas Rokus Rudzikas •
Phone: +370 5 261 3651 • Fax: +370 5 261 8464 • Email: prezidiumas@lma.lt

▪ The Academy:

Unites the most distinguished scientists and scholars to solve the key problems of Lithuanian science, culture, language, economy and social progress and to carry out fundamental research in various branches of knowledge

Promotes and maintains the high level of research and higher education and contributes to the cooperation between the Lithuanian research centres and those in other countries

Acts as a scientific expert on key issues of economy, culture, social and other fields, participates in drafting the strategies for their development, identifies the priorities for research and high technologies and assists to their implementation

Lithuanian Catholic Academy of Science

Pilies 8, LT-01123 Vilnius • <http://lkma.w3.lt/> • Chairman of the Board of the Lithuanian Catholic Academy of Science
Centre: Bishop Jonas Boruta SJ • Phone: +370 5 212 2491; +370 5 212 7461 • Fax: +370 5 212 2491 •
Email: contacts@lkma.w3.lt

▪ **The Academy:**

Is a public organization uniting Lithuanian scholars of catholic orientation residing both in Lithuania and abroad
Edits and publishes scholarly publications, organizes scholarly conferences and congresses
Has 562 members residing in Lithuania and 139 members from abroad.

Lithuanian Universities Rectors' Conference

<http://www.lurk.lt> • President: Prof. Habil. Dr. Vytautas Kaminskas • Phone: +370 37 20 67 53 •
Fax: +370 37 20 38 58 • Email: rektorius@adm.vdu.lt

▪ **The Conference:**

Is a public organization consisting of the rectors of Lithuanian universities
Coordinates the activities between all universities as well as the intercourse with governmental and local institutions
Is also an expert on issues of higher education, research and experimental development policies

Board of Directors of Lithuanian Research Institutes

Chairman: Prof. Habil. Dr. Steponas Ašmontas • Phone: +370 5 262 7124 • Fax: +370 5 262 7123 •
Email: asmontas@pfi.lt

▪ **The Board:**

Directors of state science institutes and university research institutes
Coordinates the activities between research institutes, municipal and state institutions
Serves as an expert in research and development in Lithuania

The Conference of Chairmen of Senates (Councils) of the Lithuanian Universities and Research Institutes

President: Prof. Bronislovas Kaulakys • Phone: +370 5 262 0859 • Fax: +370 5 212 5361 • Email: kaulakys@itpa.lt

▪ **The Conference:**

Is an independent public organization formed by majority of the chairmen of senates (councils) of the Lithuanian state research and higher education institutions
Assists to consolidation of democratic self-government and autonomy of the Lithuanian research and higher education institutions and takes care of the integration and development of these institutions

Lithuanian Scientific Society

Basanavičiaus 6, LT-01118 Vilnius • <http://www.lms.lt> • President: Dr. Vygintas Gontis • Phone: +370 5 261 6775 • Fax: +370 5 261 4729 • Email: lms@ktl.mii.lt

- **The Society:**

Is a non-government association of scientists and their organizations. Encourages the participation of all scientists regardless of the fields of their activity, institution, position or scientific title.

- **The goals of the Society are as follows:**

Development of fundamental and applied research considering the needs of Lithuanian economy and culture

Protection of creative and social interests of the scientists

Strengthening of a self-supporting basis of science and the responsibility of scientists, formation of a positive attitude of the general public to research methodologies for the purpose of the general welfare

HIGHER EDUCATION ESTABLISHMENTS

State Universities

The General Jonas Žemaitis Military Academy of Lithuania

Šilo 5A, LT-10322 Vilnius • <http://www.lka.lt> • Acting Commandant: Col. Arūnas Balčiūnas • Phone: +370 5 212 6923 • Fax: +370 5 212 7318 • Email: lkar@lka.lt • Number of employees 447 • Number of researchers 53, among them the holders of PhD or higher research degree 37

- **The main fields of R&D activities:**

Environmental protection

National security and foreign policy of Lithuania

Peculiarities of language teaching methods

Sociological investigations

The Lithuanian war history

- **The most successful directions of R&D activities:**

The investigation, assessment and modelling of the influence of explosive products on the environment

The Lithuanian war history

Kaunas University of Medicine

A. Mickevičiaus 9, LT-44307 Kaunas • <http://www.kmu.lt> • Rector: Prof. Habil. Dr. Remigijus Žaliūnas •
Phone: +370 37 32 72 00 • Fax: +370 37 22 07 33 • Email: rektoratas@kmu.lt • Number of employees 1682 •
Number of researchers 1047, among them the holders of PhD or higher research degree 500

Faculty of Medicine

A. Mickevičiaus 9, LT-44307 Kaunas • Dean: Prof. Dr. Romualdas Gailys • Phone: +370 37 32 73 05 •
Fax: +370 37 22 07 33 • Email: medfak@kmu.lt • Number of employees 726 • Number of researchers 592,
among them the holders of PhD or higher research degree 327

- **The main fields of R&D activities:**

Mechanisms of the live tissue functioning

IT in health care

Influence of the lifestyle and environmental factors on health and health literacy

Control of the main diseases and reassurance of the life quality

- **The most successful directions of R&D activities:**

Fundamental and clinical research of cardiac and vascular diseases

Improvement of the diagnostic and management methods of oncological diseases

Theoretical and practical aspects of mother and child health care

Faculty of Nursing

A. Mickevičiaus 9, LT-44307 Kaunas • Dean: Prof. Dr. Arvydas Šeškevičius • Phone: +370 37 32 72 48; +370 37 32 72 34 •
Fax: +370 37 22 07 33 • Email: slaugaar@kmu.lt; slaugos.fakultetas@kmu.lt • Number of employees 108 •
Number of researchers 98, among them the holders of PhD or higher research 32

- **The main fields of R&D activities:**

Human ecology, health care and prevention of the diseases

Clinical medicine and nursing

- **The most successful directions of R&D activities:**

Preparation and implementation of medical and social rehabilitation programmes for handicapped persons with significant disorders of biosocial functions in inpatient and outpatient health care

Psychological, social, somatic and mental nursing aspects in cases of chronic diseases

Life quality of senior citizens with chronic diseases: physical and psychological adaptation

Faculty of Odontology

J. Lukšos-Daumanto 6, LT-50106 Kaunas • Dean: Prof. Habil. Dr. Ričardas Kubilius • Phone: +370 37 33 83 66 •
Fax: +370 37 33 83 65 • Email: Odontologijos.fakultetas@kmu.lt • Number of employees 131 • Number of
researchers 86, among them the holders of PhD or higher research degree 36

- **The main fields of R&D activities:**

Facial traumas and facial pain etiology, pathogenesis and clinics, improvement of diagnostics and management

Oral cavity diseases: etiology, pathogenesis, management needs, assesment of prophylactic possibilities

Epidemiology, diagnostics, management and prophylaxis of orthodontic anomalies

Modelling of biomechanical properties of the stomatognathic system by the finite element methods and mathematical prognostication of the course of the structural changes

Evaluation of the influence of risk factors on the development of dental caries and periodontal disorders, and determination of the possibilities of their primary prevention possibilities

- **The most successful directions of R&D activities:**

Clinical investigations of dental carries, evaluation of prophylactic measures

Etiopathogenesis of neuro-stomatological diseases based on morphological research, improved methods of diagnostics

Biochemical investigations of the pathogenesis of periodontal diseases

Faculty of Pharmacy

A. Mickevičiaus 9, LT-44307 Kaunas • Dean: Prof. Habil. Dr. Paulius Vainauskas • Phone: +370 37 32 72 48 •

Fax: +370 37 22 07 33 • Email: vpaul@kmu.lt • Number of employees 84 • Number of researchers 62, among them the holders of PhD or higher research degree 45

- **The main fields of R&D activities:**

Investigation of new medications, especially those from medicinal plants

- **The most successful directions of R&D activities:**

Phytochemical investigation of medicinal plants

Investigation of medication technologies and evaluation of the applicability of good practice in Lithuanian pharmacy enterprises

Pharmacological analyses of nitrogen and sulphur containing officinal materials, development and optimisation of chemical diagnostic methods for forensic expertise in cases of chronic and acute poisoning

Faculty of Public Health

A. Mickevičiaus 9, LT-44307 Kaunas • Dean: Prof. Habil. Dr. Ramunė Kalėdienė • Phone: +370 37 32 73 54 •

Fax: +370 37 32 73 25 • Email: dekanvsf@kmu.lt • Number of employees 121 • Number of researchers 106, among them the holders of PhD or higher research degree 55

- **The main fields of R&D activities:**

Accumulation and analysis of the new knowledge concerning health, quality of life and health literacy of the population that are used for the development of Lithuanian National health policy

The regularities of physical and social determinants of health and effective methods of health promotion.

Investigation of pollution, environmental factors etc., detrimental to the health of population

Implementation of integrated programme for prevention of non-communicable diseases

Assessment of accessibility and quality of health care.

Development of the concept of patient involvement in different levels of decision making, evaluation of patient empowerment and influence on the health care reform.

Evaluation and planning of human resources in the health care system.

▪ **The most successful directions of R&D activities:**

Assessment of changes in health and lifestyle of Lithuanian population.

Evaluation of demographic and social inequalities in health.

Development and planning of human resources in the health care in Lithuania

Kaunas University of Technology

K. Donelaičio 73, LT-44029 Kaunas • <http://www.ktu.lt> • Rector: Prof. Habil. Dr. Ramutis Petras Bansevicius •
Phone: +370 37 30 00 01 • Fax: +370 37 32 40 54 • Email: rektorius@ktu.lt • Number of employees 2883 •
Number of researchers 1138, among them the holders of PhD or higher research degree 761

Faculty of Chemical Technology

Radvilėnų 19, LT-50270 Kaunas • Dean: Prof. Habil. Dr. Zigmundas Jonas Beresnevicius • Phone: +370 37 30 01 51 •
Fax: +370 37 30 01 52 • Email: dekctf@adm.ktu.lt • Number of employees 160 • Number of researchers 96,
among them the holders of PhD or higher research degree 86

▪ The main fields of R&D activities:

Chemistry and technology of polymer materials

Food chemistry and technology

Chemical technology of silicates

Chemistry of nitrogen-containing heterocyclic compounds

Chemistry of V, VI, VII A group non-metals

Technology of semiconductor composites

Environmental engineering

Electrolytic deposition of metals and their compounds

Theory and technology of sorptive, catalytic, electrochemical and photo-chemical processes

Chemical technology of fertilizers

▪ The most successful directions of R&D activities:

Investigations of food quality and technology

Biosorption system for final wastewater treatment with monitoring equipment

Synthesis, manufacture and use of flocculants in water cleaning

Integrated assessment of environmental impacts of traffic and transport

Municipal waste disposal systems and technologies

Faculty of Civil Engineering and Architecture

Studentų 48, LT-51367 Kaunas • Dean: Assoc. Prof. Dr. Žymantas Rudžionis • Phone: +370 37 30 04 51 •
Fax: +370 37 30 04 54 • Email: deksaf@adm.ktu.lt • Number of employees 113 • Number of researchers 68,
among them the holders of PhD or higher research degree 43

▪ The main fields of R&D activities:

Landscape management, research and management of heritage

Production technologies of concrete and its components

Strength, deformation and durability of reinforced structures

Mathematical modelling and optimisation of construction processes

Interaction between hydrotechnical systems and environment

▪ The most successful directions of R&D activities:

New strains of concrete: high strength concrete, concrete modified with different type additives and self-compacting concrete

Landscape management in Lithuania

- **Other information:**

The Accredited Laboratory of Building Materials and Structures carries out fundamental and applied research projects of building materials and structures

Faculty of Design and Technologies

Studentų 56, LT-51424 Kaunas • Dean: Assoc. Prof. Dr. Virginija Jankauskaitė • Phone: +370 37 30 02 01 • Fax: +370 37 35 39 89 • Email: dekdttf@adm.ktu.lt • Number of employees 111 • Number of researchers 60, among them the holders of PhD or higher research degree 41

- **The main fields of R&D activities:**

Optimisation of manufacturing technology and properties of woven, knitted and sewed fabrics

Analysis of the mechanical stability of polymer and mineral materials, development of adhesive compositions and simulation of their behaviour

Investigation of the hygroscopic, deformational and technological features of sawn timber

Diagnostics of technological equipment

Control and measuring systems of printing technological processes

Document security technologies

- **The most successful directions of R&D activities:**

Heterogeneous structures of materials and their evaluation

Evaluation of mechanical stability of materials

Faculty of Economics and Management

Laisvės 55, LT-44309 Kaunas • Dean: Prof. Dr. Bronius Neverauskas • Phone: +370 37 30 05 51 • Fax: +370 37 20 87 57 • Email: dekvf@adm.ktu.lt • Number of employees 190 • Number of researchers 128, among them the holders of PhD or higher research degree 68

- **The main fields of R&D activities:**

Finance management

Improvement of organization and personnel management of enterprises

Total quality management

Marketing management

E-business management

Competitive marketing

Modeling and regulation of market economy

International business economics and management

Formalisation and modelling of processes in enterprise management

Forecast of business environment

- **The most successful directions of R&D activities:**

Total quality management: development of methods and models to improve the competitive ability of economy subjects

Methods of motivating production export of open economy enterprises under uncertainty conditions

The results of economic development and regional convergence of small and medium-size enterprises in Europe

Marketing issues and their adaptability in transport sector
E-commerce in transition economies, e-commerce development in SMEs and e-region development

Faculty of Electrical Engineering and Control Systems

Studentų 48, LT-51367 Kaunas • Dean: Prof. Dr. Jonas Daunoras • Phone: +370 37 30 02 51 •
Fax: +370 37 45 43 29 • Email: dekeaf@adm.ktu.lt • Number of employees 128 • Number of researchers 85,
among them the holders of PhD or higher research degree 72

▪ The main fields of R&D activities:

Production of electric power, control of its consumption and transfer, management and prognosis of the status of technical systems
Methods of image formation and analysis
Artificial neural networks
Modelling and control of multiparametric technological processes
Computer-aided control systems of technologies and equipment
Investigation in applied electromagnetism
Renewable energetics
Safe job environment

▪ The most successful directions of R&D activities:

Automation of essential technical systems
Restructurised electrical energetics systems
Artificial neural network and their collectives

▪ Other information:

The certificated Modicon, Wonderware and Rockwell Automation training centres provide special professional studies for engineers from industrial enterprises and automation firms of Lithuania, Latvia, Estonia and Russia
The certificated SIEMENS and Endress+Hauser training centres train engineers from industrial enterprises and automation firms of Lithuania or other countries

Faculty of Fundamental Sciences

Studentų 50, LT-51368 Kaunas • Dean: Assoc. Prof. Dr. Vytautas Janilionis • Phone: +370 37 30 03 01 •
Fax: +370 37 45 64 72 • Email: dekfmf@adm.ktu.lt • Number of employees 128 • Number of researchers 86,
among them the holders of PhD or higher research degree 56

▪ The main fields of R&D activities:

Interaction of radiation with solids
Hydrogen energetics
Phenomena in heterogeneous structures
Modelling of heterogeneous processes at the surface of solids
Influence of ionizing radiation on the environment and individuals
Thin films and surface science
Analysis of stochastic extrema and their combinations
Investigation of surfaces of soft polymeric materials
Development of operator expressions for differential equation solving

Digital image processing
Mathematical modelling of mechanical and business systems
Formal operator methods and stochastic extrema properties
Application of mathematical models in engineering, economics and medicine
Investigation of mathematical models of optical fiber telecommunication links
Investigation of cryptographic information protection
History of mathematics and physics

- **The most successful directions of R&D activities:**
Analysis of mathematical models for multidimensional control systems with delays
Synthesis of multicomponent thin films by ion-plasmas methods
Plasmochemical etching and deposition processes of materials
Mathematical modelling of mechatronic systems

Faculty of Humanities

Gedimino 43, LT-44240 Kaunas • Dean: Prof. Giedrius Antanas Kuprevičius • Phone: +370 37 30 02 51 • Fax: +370 37 45 43 29 • Email: dekhmf@adm.ktu.lt • Number of employees 112 • Number of researchers 72, among them the holders of PhD or higher research degree 22

- **The main fields of R&D activities:**
Origin of modern science in western culture
The role of technology in the modern world and its impact on modern culture
Historical models of science
The philosophy of technology
Media Philosophy
Terminology and standardization of the Lithuanian language
Computational and sociolinguistic analysis of language
Interference of modern languages, the elements of the origin of innovations
Statistical analysis of music
Psychoacoustic and cognitive aspects of musical scales
Evaluation and development of mobile/embedded musical systems
Metamodelling of music languages
- **The most successful directions of R&D activities:**
Perception of globalisation process in Lithuania: evaluation models and model formation technologies
Computational and sociolinguistic analysis of language
Psychoacoustic and cognitive aspects of musical scales
Democratic consolidation and social-cultural conversion in the Baltic region

Faculty of Informatics

Studentų 50, LT-51368 Kaunas • Dean: Prof. Habil. Dr. Aleksandras Targamadžė • Phone: +370 37 30 03 51 • Fax: +370 37 30 03 52 • Email: dekif@adm.ktu.lt • Number of employees 216 • Number of researchers 124, among them the holders of PhD or higher research degree 78

- **The main fields of R&D activities:**

- Digital signal processing and system diagnostics
- Geographical information systems
- Computer architecture
- Automated design of large integration schemes
- Formal specification, verification and simulation of business systems.
- Simulation of complex systems.
- Computer networks and software
- Quality assessment of computer equipment and computerized workplaces
- Technology of IT based learning
- Investigation and implementation of distance learning
- Generation of functional tests
- Requirement engineering
- Finite element models and simulation software of physical systems and processes
- Conceptual modelling and design of information systems and databases
- **The most successful directions of R&D activities:**
- Development of methods and technologies of informatics engineering
- Formal analysis of distributed systems
- Computer-aided modeling of heterogeneous processes and system running mechanisms
- Finite element modeling of ballistic interaction of textile structures
- Development of methods for enterprise modeling, requirements engineering, data modeling and information systems design

Faculty of Mechanical Engineering

Kęstučio 27, LT-44025 Kaunas • Dean: Prof. Habil. Dr. Algimantas Fedaravičius • Phone: +370 37 30 04 01 • Fax: +370 37 32 34 61 • Email: dekmf@adm.ktu.lt • Number of employees 186 • Number of researchers 113, among them the holders of PhD or higher research degree 107

- **The main fields of R&D activities:**

- Strength, fracture, durability and reliability of materials and structures
- Dynamics, control and vibroacoustic diagnostics of mechanical systems
- Computer modelling, optimisation and design of structures and technologies
- Thermal and nuclear energy systems
- Technologies of powder materials and surface coatings
- Development of means of transportation and investigation of their efficiency
- **The most successful directions of R&D activities:**
- Dynamics and vibrodiagnostics of mechanical systems
- Strength, fracture, durability and reliability of materials and structures
- Thermo hydrodynamics of flows and heat and mass transfer processes in radiating media

Faculty of Social Sciences

K. Donelaičio 20, LT-44239 • Dean: Prof. Dr. Viktorija Baršauskienė • Tel: +370 37 300101 • Fax: +370 37 300102 • E-mail: dekaf@ktu.lt • Number of employees 161 • Number of researchers 97, among them the holders of PhD or higher research degree 59

Institute of Educational Studies of the Faculty of Social Sciences

K. Donelaičio 20, LT-44239 Kaunas • Director: Prof. Habil. Dr. Palmira Jucevičienė • Phone: +370 37 30 01 30 • Fax: +370 37 30 01 02 • Email: ei@ktu.lt • Number of employees 4 • Number of researchers 4, among them the holders of PhD or higher research degree 3

▪ The main fields of R&D activities:

Development of educational research methodology
Philosophy and systems of higher education and continuing education
Educational management and modernization of educational system
Educational innovation and its implementation through action research
Competence development through teaching and learning
Learning organization and its development
Development of effective communication in an organization
Social education for the democratic development of the society

▪ The most successful directions of R&D activities:

The role of higher education in regional development
Empowerment of individuals for new learning: development of learning organization and learning regions for innovations

Department of Sociology of the Faculty of Social Sciences

K. Donelaičio 20, LT-44239 Kaunas • Head: Prof. Habil. Dr. Gediminas Merkys • Tel: +370 37 300112, 300144 • Fax: +370 37 300102 • E-mail: gediminas.merkys@ktu.lt • Number of employees 14 • Number of researchers 12, among them the holders of PhD or higher research degree 9

▪ The main fields and R&D activities:

Sociology of information society
Methodology of applied social research
Development of quantitative and qualitative methods
Community and governance
Sociology of public health
Sociology of education
Political sociology
Cultural sociology
Social stratification and mobility
Social movements and social change

▪ The most successful directions of R&D activities:

Environmental sociology and policy
Organizational sociology
ICT application in society and education: preparing indexes and monitoring
Social, economical and physical environment quality assessment in Lithuanian regions

Department of Strategic Management of the Faculty of Social Sciences

K. Donelaičio 20-321, LT-44239 Kaunas • Head: Prof. Habil. Dr. Robertas Juzevičius • Phone: +370 37 30 01 21 • Fax: +370 37 22 86 83 • Email: rjucev@ktu.lt • Number of employees 11 • Number of researchers 8, among them the holders of PhD or higher research degree 6

▪ The main fields of R&D activities:

National competitiveness

Strategic management

Clusters and Business Systems

National innovation systems

Knowledge management and intellectual capital

▪ The most successful directions of R&D activities:

Industrial clusters and networks

Development of National innovation system

KTU Panevėžys Institute

Klaipėdos 1, LT-35209 Panevėžys • Director: Prof. Dr. Habil. Algirdas Jurkauskas • Tel: +370 45 51 01 57, 46 40 80 • Fax: +370 45 46 57 38 • E-mail: dekppf@ktu.lt • Number of employees 188 • Number of researchers 69, among them the holders of PhD or higher research degree 32

▪ The main fields of R&D activities:

Mechatronic and micro-nano systems. Design and technology

Research of mechanically heterogeneous structures

Social and economical changes in the aspect of globalization

Problems of modern market employment

Public administration problems

Designing of the crises' preventative systems in the companies

Forecast of business environment

Improvement of relationship with stakeholders, integrating their needs to the goals and objectives of the organization

Problems of sociolinguistics

Updating methodology and teaching aids for foreign languages (English, German, French and Russian) as well as Lithuanian for special purposes: the language of business administration, the language of civil engineering, etc

▪ The most successful direction of R&D activities:

Measurement of the magnetic fields in the solid matter and thin films

Buildup and experimental research of MEMS

Research of multilayer structures and modelling of mechanically heterogeneous structures

Presumptions and conditions for developing learning organization

Empowering environment for successful practice of the organization

Problems of international economics and foreign trade in Lithuania

Energy Technology Institute

K. Donelaičio 20, LT-44239 Kaunas • Director: Prof. Habil. Dr. Jonas Gylys • Phone: +370 37 30 04 44 •
Fax: +370 37 32 37 68 • Email: jonas.gylys@ktu.lt • Number of employees 2 • Number of researchers 1, among
them the holders of PhD or higher research degree 1

▪ The main fields of R&D activities:

Nuclear energy safety
Power equipment reliability and durability
New nuclear power plant construction necessity reasoning
Spent nuclear fuel management
Energy economy
Energy development planning
Energy processes efficiency increase
Oil industry equipment operation

▪ The most successful directions of R&D activities:

The investigation of the heat transfer for the tube bundles in vertical two-phase flow
Mathematical analysis of heat transfer in two-phase systems
The investigation of heat transfer in liquid film flow
Estimation of the technical and economical conditions of nuclear energy usage continuation in Lithuania
Estimation of the technical and economical conditions for new nuclear power plant construction

Faculty of Telecommunications and Electronics

Studentų 50, LT-51368 Kaunas • Dean: Prof. Dr. Brunonas Dekeris • Phone: +370 37 30 05 01 •
Fax: +370 37 30 05 02 • Email: dektef@adm.ktu.lt • Number of employees 93 • Number of researchers 62,
among them the holders of PhD or higher research degree 53

▪ The main fields of R&D activities:

Telecommunication systems and networks
Investigation of electronic systems and signal-processing methods
Measurements of parameters of complex signals
Biomedical signal processing
Ultrasonic measurements and nondestructive testing
Problems of telematics
TV and electronic optics devices
Quality of electronic systems
Electronic Security Systems
Development of new information technologies
Problems of traceability and integration into the European metrology system

▪ The most successful directions of R&D activities:

Quality of telecommunication networks and services
Systems of biomedical diagnostics and monitoring
Ultrasonic non-destructive testing
Measurement technologies

Institute of Defence Technologies

Kęstučio 27, LT-44025 Kaunas • Director: Prof. Habil. Dr. Algimantas Fedaravičius • Phone: +370 37 30 04 05 • Fax: +370 37 32 34 61 • Email: alfedar@ktu.lt • Number of employees 5

▪ The main fields of R&D activities:

The dynamics of linear and non-linear mechanical, electromechanical and mechatronic systems: simulation, control, optimum synthesis

The equipment and technologies developed are based on the latest achievements in military science, mechanical engineering, information technologies, laser technologies, optics, electronics, telecommunications and other fields of engineering
Analyzed material of rocket techniques and remained creation of experimental model of solid fuel rocket

▪ The most successful directions of R&D activities:

Laser riflemen's training centers at the Jonušas Radvila Training Regiment, the General Jonas Žemaitis Military Academy of Lithuania, the Ministry of Justice of the Republic of Lithuania, the Latvian Ministry of the Interior Affairs
Training equipment to fire 60 mm and 120 mm mortars, implemented at the Lithuanian Armed Force

Laser tactical training equipment of soldiers and combatant units under conditions of a firing ground

"Apuokas" device of a gun aiming at the target under conditions of the nighttime

The cryptographic system of information security, which is implemented, and others

▪ Other information:

IoDT activities have been licensed by the following licenses issued by the Weaponry Fund under the Government of the republic of Lithuania:

No. 00028 – design and manufacture of weapons;

No. 00029 – design and manufacture of ammunition.

IoDT is conferred NCAGE (NATO/National commercial and government entity) code 003BR, and four of its products were awarded NSN (NATO / NATIONAL Stock Number) code.

Developed by IoDT:

the Laser Riflemen's Trainer earned the title of The Product of the Year 2000 in the field of machine building;

the Mortar Training Equipment earned the title of The Product of the Year 2005 in the field of machine building.

IoDT is integrated into the Epicos and Exostar Trading Partners Directory how participant in the Lithuanian Block Deal Programme.

Institute of Environmental Engineering

K. Donelaičio 20, LT-44239 Kaunas • Director: Prof. Habil. Dr. Jurgis Kazimieras Staniškis •

Phone: +370 37 30 07 60 • Fax: +370 37 20 93 72 • Email: envir.eng@ktu.lt • Number of employees 15 • Number of researchers 9, among them the holders of PhD or higher research degree 7

▪ The main fields of R&D activities:

Improvement of environmental performance

- **The most successful directions of R&D activities:**

Cleaner production and its financing
Environmental management systems and their evaluation
Preventive waste management

Institute of Europe

Kęstučio 8, LT-44320 Kaunas • Director: Prof. Habil. Dr. Kęstutis Kriščiūnas • Phone: +370 37 30 01 37 • Fax: +370 37 30 01 40 • Email: euroi@euroi.ktu.lt • Number of employees 13 • Number of researchers 9, among them the holders of PhD or higher research degree 7

- **The main fields of R&D activities:**

Analyses and prognosis of European integration processes and their political, social and economical consequences

- **The most successful directions of R&D activities:**

Legal and political integration of Europe
The development of knowledge based economy in Lithuania and Europe;
Industry and business changes as well as possible consequences in the context of integration processes
Investigation and management of European programs and projects

Metrology Institute

Studentų 50, LT-51368 Kaunas • Director: Prof. Habil. Dr. Rimvydas Povilas Žilinskas • Phone: +370 37 35 12 52, 30 07 77 • Fax: +370 37 351252 • Email: metrol.inst@ktu.lt • Number of employees 11 • Number of researchers 2, among them the holders of PhD or higher research degree 1

- **The main fields of R&D activities:**

Measurements and applied metrology, national metrology problems

- **The most successful directions of R&D activities:**

Metrology in chemistry
Methodology of metrological control for software of measuring instruments

Institute of Materials Science

Studentų 50, LT-51368 Kaunas • Director: Assoc. Prof. Dr. Liudvikas Augulis • Phone: +370 37 30 03 43 • Fax: +370 37 45 64 72 • Email: liudvikas.augulis@ktu.lt • Number of employees 1 • Number of researchers 1, among them the holders of PhD or higher research degree 1

- **The main fields of R&D activities:**

Optical research methods in materials science
Materials for micro-electro-mechanical systems (MEMS)

- **The most successful directions of R&D activities:**

Development of Electronic Speckle Pattern Interferometry (ESPI)

Institute of Technological Systems Diagnostics

Kęstučio 27, LT-44025 Kaunas • Director: Prof. Habil. Dr. Vitalijus Volkovas • Phone: +370 37 32 37 20 • Fax: +370 37 32 37 20 • Email: tsdi@ktu.lt • Number of employees 2 • Number of researchers 1, among them the holders of PhD or higher research 1

- **The main fields of R&D activities:**

Development of the modelling principles of heterogeneous system dynamics and the identification methods of their state

Monitoring and expertise of technical conditions of engineering systems

- **The most successful directions of R&D activities:**

Heterogeneous system dynamics and methods of diagnostics

Development of automated systems for vibroacoustic diagnostics and monitoring

Testing of machinery vibration and acoustic noise level

- **Other information:**

The Accredited Specialized Laboratory tests machinery vibrations and acoustic noise level

Prof. K. Baršauskas Ultrasound Research Institute

Studentų 50, LT-51368 Kaunas • Director: Prof. Habil. Dr. Rymantas Jonas Kažys • Phone: +370 37 30 05 43 • Fax: +370 37 45 14 89 • Email: ulab@ktu.lt • Number of employees 16 • Number of researchers 9, among them the holders of PhD or higher research degree 8

- **The main fields of R&D activities:**

Ultrasonic measurements

Ultrasonic non-destructive testing and diagnostic methods

- **The most successful directions of R&D activities:**

Development of high-temperature ultrasonic transducers and novel imaging techniques in liquid metal alloy

Air-coupled ultrasonic testing techniques of composite materials

Application of long range ultrasound for testing of large engineering structures

Research Centre for Microsystems and Nanotechnology

Studentų 65, LT-51369 Kaunas • Director: Prof. Habil. Dr. Valentinas Snitka • Phone: +370 37 45 15 88 • Fax: +370 37 30 08 31 • Email: valentinas.snitka@ktu.lt • Number of employees 5 • Number of researchers 3, among them the holders of PhD or higher research degree 3

- **The main fields of R&D activities:**

Synthesis of nanotubes and formation of self-assembling structures for nano-optics and sensors

Development of Scanning near field microscopy with integrated picoseconds' spectroscopy

Nanomedicine - nanoimaging, cells micromechanics and manipulation by scanning probe microscopy methods

- **The most successful directions of R&D activities:**

Instrumentation developments – novel AFM for investigation of biological objects and manipulation; scanning near-field optical microscope with photon counting system for fluorescent imaging

Research developments – carbon and non-carbon nanotubes for nanooptics, nanoparticles for drug delivery and fluorescent imaging

Computational technologies centre

Studentų 50-407, LT-51368 Kaunas • Director: Prof. Dr. Habil. Rimantas Barauskas • Phone: +370 37 30 03 57 • Fax: +370 37 30 03 52 • E-mail: rimantas.barauskas@ktu.lt • Number of employees 2 • Number of researchers 2, among them the holders of PhD or higher research degree 2

▪ The main fields of R&D activities:

Analysis of physical structures, engineering systems and processes by using computational mathematics and mechanics methods and information technologies (theory, computer implementation and applications)

Image processing and analysis based on computational technologies, techniques of the Artificial Intelligence and model based cognitive technologies (theory, computer implementation and application) in:

medicine (diagnostic cardiology, radiology and surgery; telemedicine)

forensic examination (image restoration/enhancement, face recognition)

industry (computer vision in textile, sewing, etc.)

multimedia (publishing of electronic books, WEB sites, etc.)

▪ The most successful directions of R&D activities:

Finite element modeling of mechanical impact and wave propagation

Image processing and analysis in Healthcare Informatics. [EU INCO-COPERNICUS project No.PL961144: Application of Open Scalable Architecture for Multimedia Telemedicine Applications (SAMTA)]

Research project supported by the Lithuanian State Science and Studies Foundation “Control of liver tumor radio-frequency ablation by physically based simulation and model driven image processing – NAVIKAS” Lithuanian Priority Science Directions

International Studies Centre

A. Mickevičiaus g. 37, LT-44244 Kaunas • Director: Prof. Dr. Habil. Arvydas Palevičius • Tel/fax: +370 37 323704 • E-mail: dirtsc@ktu.lt, arvydas.palevicius@ktu.lt • Number of employees 14 • Number of researchers 6, among them the holders of PhD or higher research degree 5

▪ The main fields of R&D activities:

Investigation of micromechanical systems

Modeling and dynamics investigation of mechanical systems

Mechanical testing of materials

Investigation of orthogonal cutting for research of dynamical material properties

Theoretical and experimental investigation of vibroisolating structures

Optical characterization of diffractive optical elements

▪ The most successful directions of R&D activities:

Investigation of nonlinear dynamics of MEMS

Investigation of vibrocutting

Klaipėda University

H. Manto 84, LT-92294 Klaipėda • <http://www.ku.lt> • Rector: Prof. Habil. Dr. Vladas Žulkus •
Phone: +370 46 39 89 01 • Fax: +370 46 39 89 02 • Email: rektorius@rekt.ku.lt • Number of employees 634 •
Number of researchers 355, among them the holders of PhD or higher research degree 235

Faculty of Health Sciences

H. Manto 84, LT-92294 Klaipėda • Dean: Prof. Habil. Dr. Algimantas Kirkutis • Phone: +370 46 39 85 51 •
Fax: +370 46 39 85 52 • Email: sveikdek@svmf.ku.lt • Number of employees 26 • Number of researchers 11,
among them the holders of PhD or higher research degree 11

- **The main fields of R&D activities:**
Health care and strengthening
- **The most successful directions of R&D activities:**
Recreation and tourism
Social work and public health
Rehabilitation and nursing

Faculty of Humanities

H. Manto 84, LT-92294 Klaipėda • Dean: Assoc. Prof. Dr. Rimantas Balsys • Phone: +370 46 39 85 01 •
Fax: +370 46 39 85 02 • Email: humdek@hmf.ku.lt • Number of employees 123 • Number of researchers 49,
among them the holders of PhD or higher research degree 43

- **The main fields of R&D activities:**
Research of languages, Lithuanian culture and history to strive for cognition and preservation of national identity
- **The most successful directions of R&D activities:**
Baltic Linguistics: Baltic verb history, West Baltic languages
History of the Lithuanian literature of Klaipėda region in the XVII–XIX
History of Klaipėda region and city

Faculty of Marine Technics

Bijūnų 17, LT-91225 Klaipėda • Dean: Prof. Habil. Dr. Vytenis Zabukas • Phone: +370 46 39 86 80 •
Fax: +370 46 39 86 82 • Email: jtfdek@jtf.ku.lt • Number of employees 68 • Number of researchers 30, among
them the holders of PhD or higher research degree 23

- **The main fields of R&D activities:**
Development and implementation of modern technologies into Lithuanian maritime complex and coastal region industry
- **The most successful directions of R&D activities:**
Sustainable development of sea transport and logistics
Development of sustainable use of energy
Biodegradation of organic matter

Faculty of Natural Sciences and Mathematics

H. Manto 84, LT-92294 Klaipėda • Dean: Assoc. Prof. Dr. Petras Grecevičius • Phone: +370 46 39 88 01;
+370 46 39 88 30 • Fax: +370 46 39 88 02; +370 46 39 88 35 • Email: pegre@gmf.ku.lt • Number of employees
89 • Number of researchers 41, among them the holders of PhD or higher research degree 28

- **The main fields of R&D activities:**

Ecology and environmental research

Mathematics and computer science

Environmental planning and landscape architecture

- **The most successful directions of R&D activities:**

Innovation technologies for the Baltic Sea Region sustainable development

Mathematical modelling and information technologies

Stability of ecosystem and cultural landscapes of Lithuanian coastal zone

Faculty of Pedagogy

S. Nėries 5, LT-92227 Klaipėda • Dean: Assoc. Prof. Dr. Antanas Lukoševičius • Phone: +370 46 39 86 01 •

Fax: +370 46 39 86 02 • Email: pfdek@pf.ku.lt • Number of employees 154 • Number of researchers 96, among them the holders of PhD or higher research degree 49

- **The main fields of R&D activities:**

Becoming of a human and social integration in the context of educational paradigms

- **The most successful directions of R&D activities:**

Scientific grounding, projecting, realization, and evaluation of educational models, strategies, and technologies in the aspects of quality and contents alternation

Optimization of socio-educational help for a human in the context of interaction of educational institutions and community

Modernization of specialist preparation

Faculty of Social Sciences

Minijos 153, LT-93185 Klaipėda • Dean: Assoc. Prof. Dr. Antanas Bučinskas • Phone: +370 46 39 86 50 •

Fax: +370 46 39 86 52 • Email: smfdekan@smf.ku.lt • Number of employees 79 • Number of researchers 48, among them the holders of PhD or higher research degree 27

- **The main fields of R&D activities:**

Interdisciplinary research of economic, social and political potential of Lithuania in the Baltic region through the aspect of global and national interaction

- **The most successful directions of R&D activities:**

Peculiarities of organization management

Recourses of modern politics in Lithuania

Spatial organizing problems in Lithuania

Coastal Research and Planning Institute

H. Manto 84, LT-92294 Klaipėda • www.corpi.ku.lt • Director: Assoc. Prof. Dr. Artūras Razinkovas •

Phone: +370 46 39 88 44 • Fax: +370 46 39 88 45 • Email: art@corpi.ku.lt • Number of employees 28 • Number of researchers 21, among them the holders of PhD or higher research degree 9

- **The main fields of R&D activities:**

Ecology and environmental research of aquatic ecosystems, coastal zone management and environmental consultancy

- **The most successful directions of R&D activities:**
Plankton and benthos ecology, ecological modeling, invasion biology, applied environmental studies

History and Archaeology Institute of Baltic Region

Tilžės 13, LT-91251 Klaipėda • Director: Dr. Silva Pocyte • Phone: +370 46 41 01 90 • Fax: +370 46 41 02 01 • Email: s.pocyte@ku.lt • Number of employees 16 • Number of researchers 13, among them the holders of PhD or higher research degree 13

- **The main fields of R&D activities:**
Development of cultural landscape in the Baltic region: history, archaeology, underwater archaeology, dendrochronology and cultural anthropology
- **The most successful directions of R&D activities:**
Regional history: Western Lithuania and Kalliningrad region in the XIV – XX centuries, history and archaeology of Klaipėda city, formation and publication of investigative archive
Underwater-marine research
Archaeological research and dendrochronology

Maritime Institute

I. Kanto 7, LT-92123 Klaipėda • Director: Assoc. Prof. Dr. Viktoras Senčila • Phone: +370 46 39 72 40 • Fax: +370 46 39 72 40 • Email: direktorius@ji.ku.lt • Number of employees 30 • Number of researchers 17, among them the holders of PhD or higher research degree 7

- **The main fields of R&D activities:**
Technology of sea transport
Control of pollution
- **The most successful directions of R&D activities:**
Reduction of sea transport impact on environment

Regional Policy and Planning Institute

Minijos 155, LT-93185, Klaipėda • Directress: Assoc. Prof. Dr. Ligita Šimanskienė • Phone: +370 46 39 85 96 • Fax: +370 46 39 85 97 • E-mail: ligita.simanskiene@ku.lt • Number of employees 3 • Number of researches 2, number of doctors of social sciences 1. (Cooperate with researchers from other departments of Klaipėda University and other scientific institutions for some project).

- **The main direction of scientific research is:**
The policy of region formation in Lithuania and social, legal, economical problems of integration into European Union
- **The most successful directions of R&D activities:**
The diagnose of the social situation in the region according to the main parameters (human resources, employment, economic development and cultural orientation)
The preconditions of civil society formation in the region
The management problems in business organisations in the region

Institute of Maritime and Cultural Landscapes (IM&CL)

H. Manto 84, LT-92294 Klaipėda • Director: Assoc. prof. dr. Petras Grecevičius • Phone: +370 46 39 88 30; +370 460 43055 • Fax: +370 46 39 88 35 • Email: pegre@gmf.ku.lt • Number of employees 5 • Number of researchers 15, among them the holders of PhD or higher research degree 12

- **The main fields of R&D activities:**

Environmental, cultural landscapes and ecology research

Environmental planning and landscape architecture

- **The most successful directions of R&D activities:**

Investigations of landscape in Lithuania, Western Lithuania and Baltic region

Innovation technologies for the Baltic Sea Region sustainable development.

Mathematical modelling of the coastal technologies

Stability of ecosystem and cultural landscapes of Lithuanian coastal zone

Mechatronics Science Institute

Bijūnų 17, LT-91225 Klaipėda • Director: Assoc. Prof. Dr. Rimantas Didžiokas • Phone: +370 46 39 89 54 • Fax: +370 46 39 89 54 • Email: mmi@ku.lt • Number of employees 13 • Number of researchers 12, among them the holders of PhD or higher research degree 12

- **The main fields of R&D activities:**

Development and synthesis of mechatronics systems

- **The most successful directions of R&D activities:**

Machine dynamics research

Systems of Electromechanics transformation research

Biomechatronics systems analysis

Lithuanian Academy of Music and Theatre

Gedimino 42, LT-01110 Vilnius • <http://www.lma.lt> • Rector: Prof. Eduardas Gabnys • Phone: +370 5 261 2691 • Fax: +370 5 212 6982 • Email: rektoratas@lmta.lt • Number of employees 338 (teachers) • Number of researchers 58, among them the holders of PhD or higher research degree 53

- **The main fields of R&D activities:**

Lithuanian musical culture: researches in Lithuanian music history; modern Lithuanian music, its styles, forms and genres; conceptions of music pedagogy and its dissemination; theory and methods of music interpretation
Lithuanian musical ethnography: accumulation, research and publication of Lithuanian folk music, links of Lithuanian folk music with world folk music
Theory and history of Lithuanian theatre: main trends; personalities; international context

Lithuanian Academy of Physical Education

Sporto 6, LT-44221 Kaunas • Rector: Prof. Habil. Dr. Albertas Skurvydas • Phone: +370 37 30 26 20 • Fax: +370 37 30 45 15 • Email: lkka@lkka.lt • Number of employees 258 • Number of researchers 156, among them the holders of PhD or higher research degree 86

Faculty of Sports Biomedicine

Sporto 6, LT-44221 Kaunas • Dean: Assoc. Prof. Dr. Alvydas Kalvėnas • Phone: +370 37 30 26 40 • Fax: +370 37 30 45 15 • Email: sbmf@lkka.lt • Number of employees 61 • Number of researchers 51, among them the holders of PhD or higher research degree 38

- **The main fields of R&D activities:**

Physiology of sport and movement's control
Complex and dynamic adaptation of human motor system
Physiological, biochemical and methodological aspects of the adaptation of the human body to physical loads
Fast and slow adaptation of aerobic capacity; social integration of the handicapped
Public health and physical activity

- **The most successful directions of R&D activities:**

Regularities of complex and dynamic adaptation of motor system
Fast and slow adaptation of aerobic capacity due to influence of laboratory and training loads
Biomedical, pedagogical, psychosocial and methodological aspects of socialization and social integration of the handicapped

Faculty of Sports Education

Sporto 6, LT-44221 Kaunas • Dean: Assoc. Prof. Dr. Juozas Kasiulis • Phone: +370 37 30 26 33 • Fax: +370 37 30 45 15 • Email: sef@lkka.lt • Number of employees 95 • Number of researchers 70, among them the holders of PhD or higher research degree 29

- **The main fields of R&D activities:**

The newest technologies in social education and psychological training
Development of new technologies in physical education and physical training
Socioeducational determination of physical education and sports as a factor of socialization
The physical culture and physical activity of schoolchild

- **The most successful directions of R&D activities:**

Social and educational aspects of physical activity
Urgent pedagogical and psychological problems in the context of physical education and sports
Physical activity of an individual and its values as factors developing social competence

Faculty of Sports Technology and Tourism

Sporto 6, LT-44221 Kaunas • Dean: Assoc. Prof. Dr. Rimantas Mikalauskas • Phone: +370 37 30 26 78 •

Fax: +370 37 30 45 15 • Email: sttf@lkka.lt • Number of employees 102 • Number of researchers 80, among them the holders of PhD or higher research degree 34

▪ The main fields of R&D activities:

Modelling of training management of athletes of different age and level of mastership

Control and complex evaluation of training process

Optimum technologies of training of young athletes

Modelling of leisure activities

▪ The most successful directions of R&D activities:

Modelling of training management of athletes

Control and complex evaluation of training process

Didactics and management of training of athletes of different age and level of mastership

Lithuanian Veterinary Academy

Tilžės 18, LT-47181 Kaunas • <http://www.lva.lt> • Rector: Prof. Habil. Dr. Henrikas Žilinskas •
Phone: +370 37 36 23 83 • Fax: +370 37 36 24 17 • Email: reklva@lva.lt • Number of employees 210 • Number of researchers 187, among them the holders of PhD or higher research degree 103

Faculty of Animal Husbandry Technology

Tilžės 18, LT-47181 Kaunas • Dean: Assoc. Prof. Dr. Paulius Matusėvičius • Phone: +370 37 36 19 36 •
Fax: +370 37 36 24 17 • Email: dekanas@lva.lt • Number of employees 89 • Number of researchers 76, among them the holders of PhD or higher research degree 39

- **The main fields of R&D activities:**

Productivity mechanisms of animals

The influence of genetic and other factors on the increase of animal and poultry production, production quality and environmental protection

Preparation of biotechnological, ecological and animal welfare measures in order to develop the animal farming, animal production quality and safety of food of animal origin and their implementation

- **The most successful directions of R&D activities:**

Genomics research in livestock

Genetic evaluation and development of animal's populations in Lithuania

Faculty of Veterinary Medicine

Tilžės 18, LT-47181 Kaunas • Dean: Assoc. Prof. Dr. Albina Aniulienė • Phone: +370 37 36 24 52 •
Fax: +370 37 36 24 17 • Email: dekane@lva.lt • Number of employees 121, • Number of researchers 111, among them the holders of PhD or higher research degree 64

- **The main fields of R&D activities:**

Physiological and pathological processes of animals

Infectious and non-infectious diseases, raw animal and products of animal origin

Prevention of animal diseases, preparation and implementation of complex means on food safety

- **The most successful directions of R&D activities:**

Paleontological investigation of the wild and domestic animal

Fungi and their mycotoxins - important biological factors on health

The investigation and harmonisation of digestion processes in rumen of cattle

Lithuanian University of Agriculture

Studentų 11, LT-53361 Akademija, Kaunas distr. • <http://www.lzuu.lt> • Rector: Prof. Habil. Dr. Romualdas Deltuvas • Phone: +370 37 75 22 05 • Fax: +370 37 39 75 00 • Email: laa@lzuu.lt; Romualdas.Deltuvas@lzuu.lt • Number of employees 1069 • Number of researchers 473, among them the holders of PhD or higher research degree 282

Faculty of Agricultural Engineering

Studentų 15, LT-53362 Akademija, Kaunas distr. • Dean: Prof. Habil. Dr. Algirdas Jonas Raila • Phone: +370 37 75 22 28 • Fax: +370 37 75 23 24 • Email: IF@lzuu.lt • Number of employees 123 • Number of researchers 88, among them the holders of PhD or higher research degree 57

- **The main fields of R&D activities:**

Improvement of agricultural machinery and technologies

Energetical processes in biotechnologies and their impact on the environment

- **The most successful directions of R&D activities:**

Development and improvement of sustainable and ecological tillage, field vegetable growing and harvesting technologies and machines

Increase of reliability of mechanisms by improving engineering solutions and engineering management, by introducing quality management systems of agricultural and technical services in enterprises

Search for new fields of use of agricultural production and development of its perspective trends by using alternative energy resources and increasing the efficiency of electrotechnologies and thermoenergetical processes

Improvement of processing and storage technologies, production quality and process control of plant growing and animal husbandry products

Faculty of Agronomy

Studentų 11, LT-53361 Akademija, Kaunas distr. • Dean: Assoc. Prof. Dr. Egidija Venskutonienė • Phone: +370 37 75 22 03 • Fax: +370 37 75 22 93 • Email: af@nora.lzuu.lt • Number of employees 94 • Number of researchers 83, among them the holders of PhD or higher research degree 55

- **The main fields of R&D activities:**

Investigation and evaluation of variations of physical and chemical properties and productivity of soils of different genesis marked out in a new classification of Lithuanian soils under the influence of natural and antropogenic factors

Agroecological evaluation of crops

Optimisation and ecologisation of crop formation and yielding conditions by means of agriculture

Field and meadow plant growing, development and yield formation

The influence of biological potential, environmental factors, agrotechnics on the yield, quality and storage of orchard and garden plants

Prevalence and harmfulness of pests and means of protection

- **The most successful directions of R&D activities:**

Genesis, classification, ecology and productivity of arable soils in Lithuania

Sustainable and organic agriculture

Herbology

Influence of environmental factors and agrotechnics on yield, quality and storage of fruit and vegetables

▪ **Other information:**

A new Lithuanian variety of spring rape "Auksis" was nurtured. In 2002 it was included into the list of crops that are most suitable for growing under Lithuanian conditions

Faculty of Economics and Management

Universiteto 10, LT-53361 Akademija, Kaunas distr. • Dean: Assoc. Prof. Dr. Neringa Stončiuvienė • Phone: +370 37 75 22 57 • Fax: +370 37 75 23 62 • Email: ef@lzuu.lt • Number of employees 98 • Number of researchers 80, among them the holders of PhD or higher research degree 42

▪ **The main fields of R&D activities:**

Investigation of rural integrated development management

Investigation of rural trades and their infrastructure organizations management

Investigation of accounting and finance systems

Investigation of sustainable agricultural development economics

Investigation of agrarian economics idea and economy transformations development

Investigation of rural areas competitiveness

Marketing, organizational and economical substantiation of scientific progress results

▪ **The most successful directions of R&D activities:**

Modelling of multifunctional agriculture in the context of sustainable agricultural and rural development

Investigation of rural social development

Improvement of rural trades, their infrastructure and processing industry enterprises managements

Improvement of accounting and accountability of agricultural subjects.

Faculty of Forestry

Studentų 11, LT-53361 Akademija, Kaunas distr. • Dean: Assoc. Prof. Dr. Edmundas Bartkevičius • Phone: +370 37 75 22 32 • Fax: +370 37 75 23 79 • Email: me@lzuu.lt • Number of employees 38 • Number of researchers 30, among them the holders of PhD or higher research degree 23

▪ **The main fields of R&D activities:**

The state of forest, water and field ecosystems

Substantiation of forestry standard documents

Development of strategic technologies for multipurpose use of forest

Investigation of forest productivity and modelling of future forest resources

▪ **The most successful directions of R&D activities:**

Improvement of sustainable and multipurpose forestry technologies

Modelling of dynamics and use of forest resource

Faculty of Water and Land Management

Universiteto 10, LT-53361 Akademija, Kaunas distr. • Acting Dean: Assoc. Prof. Dr. Vidmantas Gurklys • Phone: +370 37 75 22 60 • Fax: +370 37 75 23 92 • Email: vz@lzuu.lt • Number of employees 94 • Number of researchers 80, among them the holders of PhD or higher research degree 56

▪ The main fields of R&D activities:

Reorganization of rural water management and creation of its juridical-economical system

Waterworks and their environment

Development of hydroenergy and sustainable exploitation of water resources

Application of modern modelling technologies for solving the problems of water engineering (evaluation of environmental impact, modelling of floods, modelling of hydraulic and hydrological processes)

Formation of land-tenures in the course of land reform

Need and possibilities of land consolidation

Determination of ecologically sensitive territories

▪ The most successful directions of R&D activities:

The state, reliability and environmental impact of waterworks

Development of the system for prognosis of floods in the Nemunas delta and evaluation of economical and ecological damage

Analysis of agricultural land-tenures formation and economical substantiation of their structure

Institute of Environment

Studentų 11, LT-53361 Akademija, Kaunas distr. • Acting Director: Prof. Dr. Vida Rutkoviėnė • Phone: +370 37 75 22 02 • Fax: +370 37 75 22 02 • Email: ai@lzuu.lt • Number of employees 40 • Number of researchers 37, among them the holders of PhD or higher research degree 23

▪ The main fields of R&D activities:

Ecology and environmental research

Environmental engineering and landscape management

▪ The most successful directions of R&D activities:

Investigation of agro-, hydro- and forest ecosystems

Production and environmental impact of non-alimentary bioproducts

Improvement of quality of agricultural products

Institute of Information Technologies

Universiteto 10, LT-53361 Akademija, Kaunas distr. • Director: Assoc. Prof. Dr. Aleksandras Savilionis • Phone: +370 37 75 23 74 • Fax: +370 37 75 22 18 • Email: Aleksandras.Savilionis@lzuu.lt • Number of employees 33 • Number of researchers 25, among them the holders of PhD or higher research degree 12

▪ The main fields of R&D activities:

Improvement of information supply to agriculture

▪ The most successful directions of R&D activities:

Development of information system of Lithuanian agriculture and food product market, assurance of its functioning

Application of information technologies in agriculture

Institute of Rural Culture

Studentų 11, LT-53361 Akademija, Kaunas distr. • Director: Assoc. Prof. Dr. Svetlana Statkevičienė •
Phone: +370 37 75 22 97 • Email: KKI@lzuu.lt • Number of employees 67 • Number of researchers 50, among
them the holders of PhD or higher research degree 14

- **The main fields of R&D activities:**

Problems of formation of an individual and a community in Lithuania

- **The most successful directions of R&D activities:**

Development of methodologies of profession educator training and professional education content in the context of regularities of personality development and state social development

Spiritual development in modern rural area and problems of the survival of ethnic culture

Cooperated training as the means of education and study, preparation of quality management programme for the personnel of education institutions

Mykolas Riomeris University

Ateities 20, LT-08303 Vilnius • <http://www.mruni.lt> • Rector: Prof. Dr. Alvydas Pumputis •
Phone: +370 5 271 4625 • Fax: +370 5 267 6000 • Email: roffice@mruni.lt • Number of employees 373 • Number of researchers 291, among them the holders of PhD or higher research degree 172

- **The main fields of R&D activities:**

The State of Lithuania and social security in the context of the European Union:
The Present. Tendencies. Prognostication.

Faculty of Law

Ateities 20, LT-08303 Vilnius • Dean: Prof. Dr. Juozas Žilys • Phone: +370 5 271 4624 • Fax: +370 5 271 4561 •
Email: tf@mruni.lt • Number of employees 92 • Number of researchers 76, among them the holders of PhD or higher research degree 48

- **The main fields of R&D activities:**

National constitutionalism and European Union on the crossroad of development: dynamics and preconditions of harmonization of legal systems; legal state and social appliance in the XXI century

- **The most successful directions of R&D activities:**

National constitutionalism and European Union on the crossroad of development: dynamics and preconditions of harmonization of legal systems

Faculty of Strategic Management and Policy

Ateities 20, LT-08303 Vilnius • Dean: Prof. Habil. Dr. Vygandas Kazimieras Paulikas • Phone: +370 5 271 4617 •
Fax: +370 5 271 4617 • Email: svpf@mruni.lt • Number of employees 49 • Number of researchers 38, among them the holders of PhD or higher research degree 23

- **The main fields of R&D activities:**

Democracy on the conditions of globalisation and new neighbourhood
Future scenario of sustainable development

- **The most successful directions of R&D activities:**

Democracy on the conditions of globalisation and new neighbourhood
Future scenario of sustainable development

Faculty of Finance Management and Economics

Ateities 20, LT-08303 Vilnius • Dean: Prof. Dr. Vitalija Rudzkienė • Tel. + 370 5 271 4651 • Fax. + 370 5 271 4652 •
E-mail: efvf@mruni.lt • Number of employees 45 • Number of researchers 35, among them the holders of PhD or higher research degree 25

- **The main fields of R&D activities:**

Future scenario of multilevel governance effectiveness
Prognosis of effective application of European Union's structural funds and budget
Future scenario of sustainable development
Security of individual, society and private sector
Effectiveness of business development in the context of increasing competitiveness

- **The most successful directions of R&D activities:**
Future scenario of sustainable development
Security of individual, society and private sector
Effectiveness of business development in the context of increasing competitiveness

Faculty of Public Management

Valakupių 5, LT-10101 Vilnius • Dean: Assoc.Prof. Dr. Tadas Sudnickas • Phone: +370 5 274 0635 • Fax: +370 5 230 0629 • Email: vaf@mruni.lt • Number of employees 99 • Number of researchers 83, among them the holders of PhD or higher research degree 42

- **The main fields of R&D activities:**
Analysis of effectiveness of public sector's activities
Security of individual, society and private sector
- **The most successful directions of R&D activities:**
Analysis of effectiveness of public sector's activities

Faculty of Social Policy

Valakupių 5, LT-10101 Vilnius • Dean: Prof. Dr. Leta Dromantienė • Phone: +370 5 274 0602 • Fax: +370 5 274 0603 • Email: spf@mruni.lt • Number of employees 37 • Number of researchers 29, among them the holders of PhD or higher research degree 21

- **The main fields of R&D activities:**
Future scenario of sustainable development
Legal state and social appliance in the XXI century
Social policy and the elements of its secure application
- **The most successful directions of R&D activities:**
Legal state and social appliance in the XXI century

Kaunas Faculty of Police Activities

V. Putvinskio 70, LT-44211 Kaunas • Dean: Antanas Butavičius • Phone: +370 37 22 84 57 • Fax: +370 37 20 53 39 • Email: kpolf@mruni.lt • Number of employees 51 • Number of researchers 30, among them the holders of PhD or higher research degree 13

- **The main fields of R&D activities:**
Legal state and social appliance in the XXI century
Social, psychological, legal aspects of home affairs officers' activities
- **The most successful directions of R&D activities:**
Legal state and social appliance in the XXI century
Social, psychological, legal aspects of home affairs officers' activities

Šiauliai University

Vilniaus 88, LT-76285 Šiauliai • <http://www.su.lt> • Rector: Prof. Habil. Dr. Vincas Laurutis •
Phone: +370 41 59 58 00 • Fax: +370 41 59 58 09 • Email: all@cr.su.lt • Number of employees 1112 • Number of researchers 472, among them the holders of PhD or higher research degree 189

Faculty of Arts

Aušros 50, LT-76236 Šiauliai • Dean: Assoc. Prof. Dr. Vytautas Žalys • Phone: +370 41 43 27 46 •
Fax: +370 41 52 36 85 • Email: all@da.su.lt • Number of employees 82 • Number of researchers 62, among them the holders of PhD or higher research degree 20

- **The main fields of R&D activities:**

Education
Art criticism

- **The most successful directions of R&D activities:**

Contemporary art: traditions and vanguard
Ethno music in the pedagogy of contemporary music
Music of the Baltic region

Faculty of Education

P. Višinskio 25, LT-76351 Šiauliai • Dean: Assoc. Prof. Dr. Aušrinė Gumuliauskienė • Phone: +370 41 59 57 10 •
Fax: +370 41 59 57 10 • Email: all@pe.su.lt • Number of employees 90 • Number of researchers 71, among them the holders of PhD or higher research degree 31

- **The main fields of R&D activities:**

Cultivation of the abilities of the primary school children to create narratives of various forms and genres
The content and education methods of mathematics and natural sciences, consumption and skills of the schoolchildren and their attitudes towards learning at school
Pedagogy of childhood
General and vocational natural science education
Psychological analysis of mental health factors in school communities
Education in natural sciences and research of bio-variety
Pedagogy of sport and physical culture
Socialization as an aspect of education
Aesthetic education of children and young people

- **The most successful directions of R&D activities:**

Educational innovations in comprehensive school in the context of changes at school
Teacher training models
Development of the competence in pedagogy and didactics of pre-service teachers in university study programs

Faculty of Humanities

P. Višinskio 38, LT-76352 Šiauliai • Dean: Assoc. Prof. Dr. Bronius Maskuliūnas • Phone: +370 41 59 57 80 •
Fax: +370 41 43 27 48 • Email: all@hu.su.lt • Number of employees 128 • Number of researchers 108, among them the holders of PhD or higher research degree 48

▪ The main fields of R&D activities:

Dialects, culture and history of Lithuania

History of the Lithuanian literature and of other European countries

Theoretical, methodological, comparative and interdisciplinary literature studies

Theory and methodology of literature

Language system and its functioning

Structure and functioning of foreign languages and literature

Philosophical problems of social diversity

▪ The most successful directions of R&D activities:

Linguistics, stylistics and poetry of texts

Poetic and methodological singularity of Lithuanian literature

World conceptualisation in languages

Faculty of Mathematics and Informatics

P. Višinskio 19, LT-77156 Šiauliai • Dean: Assoc. Prof. Dr. Darius Šiaučiūnas • Phone: +370 41 59 57 20 •

Fax: +370 41 59 57 20 • Email: all@mi.su.lt • Number of employees 47 • Number of researchers 33, among them the holders of PhD or higher research degree 13

▪ The main fields of R&D activities:

Differential mathematical models of the real processes

Dirichlet lines

Modelling and analysis of random phenomena by the processes of time lines

Plant ecology

Nuclear and elementary particle physics

Computerised modelling, optimisation and design of technologies and systems

▪ The most successful directions of R&D activities:

Urbophytocenology, plant physiology

Probabilistic analysis and computer modelling of systems

Faculty of Natural Sciences

P. Višinskio 19, LT-77156 Šiauliai • Dean: Assoc. Prof. Dr. Alfredas Lankauskas • Phone: +370 41 59 5860 •

Fax: +370 41 59 5794 • Email: all@fm.su.lt • Number of employees 29 • Number of researchers 25, among them the holders of PhD or higher research degree 12

▪ The main fields of R&D activities:

Plant ecology

▪ The most successful directions of R&D activities:

Urbophytocenology, plant physiology

Faculty of Social Sciences

Architektų 1, LT-76236 Šiauliai • Dean: Assoc. Prof. Dr. Teodoras Tamošiūnas • Phone: +370 41 51 07 75 •

Fax: +370 41 51 07 75 • Email: dekanatas@smf.su.lt • Number of employees 127 • Number of researchers 68, among them the holders of PhD or higher research degree 21

- **The main fields of R&D activities:**

Planning of regional development

Diagnostics of education management

Job motivation and control

Management of investment

Strategic planning in Public Administration

Structure and tendencies of changes of the labour force in Lithuania

Analysis of the processes of social differentiation and integration in particular social groups

Triangulation of social research methods and design of research instruments

Psychosocial analysis of human activities in social institutions and organisations

- **The most successful directions of R&D activities:**

Regional development: planning and projecting of regional economic development and improvement of public administration sector in the context of the European integration and globalization

Diagnostics of management: analysis of management processes, research on motivation

Marketing management: consumer behaviour, services marketing, advertising/ promotion and logistics

Faculty of Special Education

P. Višinskio 25, LT-76351 Šiauliai • Dean: Assoc. Prof. Dr. Ingrida Baranauskienė • Phone: +370 41 59 57 30 •

Fax: +370 41 59 57 75 • Email: spec.ped@cr.su.lt • Number of employees 61 • Number of researchers 50, among them the holders of PhD or higher research degree 24

- **The main fields of R&D activities:**

Research and assessment of the social needs of SEN (special educational needs) and risk-group persons

Basics of the didactics of SEN children education

Optimisation of education of SEN children

- **The most successful directions of R&D activities:**

Peculiarities of the psychosocial development of care institution wards, specifics of their adaptation and socialisation

Special didactics of the Lithuanian language

Optimisation and education of SEN children

Faculty of Technology

Vilniaus 141, LT-76353 Šiauliai • Dean: Prof. Dr. Vidas Lauruška • Phone: +370 41 59 58 30 • Fax: +370 41 59 58 32 •

Email: all@tf.su.lt • Number of employees 83 • Number of researchers 55, among them the holders of PhD or higher research degree 20

- **The main fields of R&D activities:**

Electrical and electronic engineering

Biomedical engineering

Environmental engineering

Mechanical engineering
Material engineering
Civil engineering
Informatics engineering

- **The most successful directions of R&D activities:**

Multi-modality of the human-environmental interface
Cyclic strength and durability of construction elements
Development and complex research of effective technologies in leather treatment

In-Service Training Institute

Stoties 11, LT-77156 Šiauliai • Director: Assoc. Prof. Dr. Lidija Ušeckienė • Phone: +370 41 59 58 51 • Fax: +370 41 59 58 57 • Email: kvalif@cr.su.lt, lidija.u@cr.su.lt • Number of employees 16 • Number of researchers 2, among them the holders of PhD or higher research degree 2

- **The main fields of R&D activities:**

Continuous adult education
Socialization of school age children
Comparative pedagogy of the trends and systems of the 20th century education

- **The most successful directions of R&D activities:**

Peculiarities of the education, development and expression of responsibility
Integration of SEN children into a comprehensive school
Teaching humaneness in primary forms and pre-school institutions

Vilnius Academy of Fine Arts

Maironio 6, LT-01124 Vilnius • <http://www.vda.lt> • Rector: Prof. Dr. Adomas Butrimas • Phone: +370 5 210 5430 • Fax: +370 5 210 5444 • Email: Adomas.Butrimas@vda.lt • Number of employees 587 • Number of researchers 321, among them the holders of PhD or higher research degree 47

- **The main fields of R&D activities:**

The history of art

Architecture

Artistic heritage of Grand Duchy of Lithuania

Vilnius Gediminas Technical University

Saulėtekio 11, LT-10223 Vilnius • <http://www.vgtu.lt> • Rector: Prof. Habil. Dr. Romualdas Ginevičius •
Phone: +370 5 274 4930 • Fax: +370 5 270 0112 • Email: rector@adm.vtu.lt • Number of employees 1812 •
Number of researchers 747, among them the holders of PhD or higher research degree 619

Faculty of Architecture

Trakų 1/26, LT-01132 Vilnius • Dean: Prof. Dr. Rimantas Buivydas • Phone: +370 5 274 5012 •
Fax: +370 5 274 5213 • Email: archdek@ar.vtu.lt • Number of employees 67 • Number of researchers 46, among
them the holders of PhD or higher research degree 31

▪ The main fields of R&D activities:

Investigation and design of architecture and urban planning objects

History of art

Problems of architectural heritage and composition

Building constructions and architectural structures

▪ The most successful directions of R&D activities:

Analysis of modern architecture ideas

Location schemes of high-rise buildings in Vilnius and Klaipėda cities

Acoustical properties of auditoria

Faculty of Business Management

Saulėtekio 11, LT-10223 Vilnius • Dean: Prof. Habil. Dr. Aleksandras Vytautas Rutkauskas •
Phone: +370 5 274 5018 • Fax: +370 5 274 4892 • Email: management@vv.vtu.lt • Number of employees 130 •
Number of researchers 103, among them the holders of PhD or higher research degree 55

▪ The main fields of R&D activities:

Research and modelling of economic and social development in Lithuania

Methods for improving management and competitiveness of business organization

Information and telecommunication technologies in business management

Finance forecast and management under the conditions of uncertainty

Improvement of specialists career planning and studies systems in the field of business management

▪ The most successful directions of R&D activities:

Competitiveness of enterprises, analysis of direct foreign investments into the Baltic countries

Development of manager training system in view of integration of Lithuania into EU

Creation of regional business risk informative system

Analysis of the long-term trends of economic and social transformations in the East and Central European Countries

E-business development: electronic public services

Research and development projects in field of corporate restructuring, social politics and unemployment

Faculty of Civil Engineering

Saulėtekio 11, LT-10223 Vilnius • Dean: Prof. Dr. Povilas Vainiūnas • Phone: +370 5 274 5240 •

Fax: +370 5 274 5016 • Email: povva@st.vtu.lt • Number of employees 171 • Number of researchers 120, among them the holders of PhD or higher research degree 82

▪ The main fields of R&D activities:

Research, development and application of building materials, structures and technologies

Development and application of information technologies, statistical analysis and methods of modelling physical processes

Multiple criteria decision support systems in constructions, intelligent and internet technologies, real estate valuation

Development, investigation and design of energy efficient structures, including composites and structures with thermal insulating interlayer

Investigation of technical, technological and economical dimensions of innovative development, analysis, design of composite, steel and timber structures and projects

▪ The most successful directions of R&D activities:

Building constructions and their optimisation

Building technologies and management

Building materials and their technologies

Faculty of Electronics

Naugarduko 41, LT-03227 Vilnius • Dean: Prof. Habil. Dr. Roma Rinkevičienė • Phone: +370 5 274 5013 •

Fax: +370 5 274 4770 • Email: dekanatas@el.vtu.lt • Number of employees 103 • Number of researchers 73, among them the holders of PhD or higher research degree 48

▪ The main fields of R&D activities:

Development, optimization and improvement of electric and electronic devices

Investigation of quality of telecommunication network and services

Development and application of modelling of information technologies and electromagnetic processes

Investigation and application of strong magnetic fields

▪ The most successful directions of R&D activities:

Investigation of non-conventional electromechanical systems

Digital treatment technologies of image and sound signals

The analysis of data and voice transmission by wireless telecommunication systems

Application of digital methods for investigation of electromagnetic fields

▪ Other information:

The certified FESTO laboratory organizes continuous training courses for engineers from industrial enterprises

Faculty of Environmental Engineering

Saulėtekio 11, LT-10223 Vilnius • Dean: Prof. Dr. Donatas Čygas • Phone: +370 5 274 4729 • Fax: +370 5 274 4731 • Email: info@ap.vtu.lt • Number of employees 161 • Number of researchers 132, among them the holders of PhD or higher research degree 81

▪ The main fields of R&D activities:

Experimental and theoretical investigation of chemical and physical factors, which pollutes environment

Creation and development of technologies for the protection of environment

Research, development and application of road building materials, structures and construction technologies

Planning of urban transportation systems and engineering infrastructure

Sustainable development in urban planning

Investigation, development and application of technologies of geodesy and cartography, and measuring methods of physical quantities

Estimation and optimization of energy supplying and energy using systems

▪ The most successful directions of R&D activities:

Analysis, investigation and improvement of normative parameters of road materials

Analysis of technical and sanitary requirements for inner systems of heat distribution and hot water supply for blocks as well as drafting of recommendations for their legal regulation

Interaction between hydrotechnical systems and environment

▪ Other information:

The faculty has the Laboratory of Roads (accredited)

Faculty of Fundamental Sciences

Saulėtekio 11, LT-10223 Vilnius • Dean: Assoc. Prof. Dr. Algirdas Čiučelis • Phone: +370 5 274 5014 • Fax: +370 5 274 4844 • Email: fmf@fm.vtu.lt • Number of employees 329 • Number of researchers 247, among them the holders of PhD or higher research degree 168

▪ The main fields of R&D activities:

Development and application of statistical analysis and physical processes modelling methods

Research and modelling of biotechnological processes

Development and application of computational methods in mechanics and engineering

Experimental investigation of the cyclic fracture strength and shakedown of deferrable solids, plates and threaded joints

Analysis and optimization of structures discretised by finite elements

Development, analysis and solution of mathematical models

Parallel numerical methods

Knowledge based information systems

E-learning technologies

Analysis and design of engineering information systems

Application of new methods and technologies in image processing

Analysis of graphical data in engineering computer-aided design systems
Experimental and theoretical investigation of environmental systems and development of environmental protection technologies

▪ **The most successful directions of R&D activities:**

Solution of complicated problems of research, technology and industry by means of modelling methods

Investigation of expression, physical, chemical, and biological properties and the structure of recombinant proteins applying experimental and bioinformatical methods

Large deviation theorems and the conditions of the existence of the solutions of stochastic differential equations

Investigation of distributions of various statistics and application of statistical analysis methods in finance and economics

Hydrogeological and geo-environmental simulations: a contribution to the algorithms and advanced applications

Modelling of inhomogeneous materials

Fracture and damage of structural members

Experimental investigation of instrumental formations and computer-aided modelling, and the quantum fields scattering processes in the electric transport

Prognosis of natural processes based on the cosmic and radioactive particles flux variation

▪ **Other information:**

The Laboratory of Strength Mechanics (accredited) performs investigation of low-cyclic and high-cyclic durability of various materials and structural members, analyses the problems of structural strength and fracture processes

Faculty of Mechanics

J. Basanavičius 28, LT-03224 Vilnius • Dean: Prof. Habil. Dr. Mečislovas Mariūnas • Phone: +370 5 274 5015 • Fax: +370 5 274 5043 • Email: mechanic@me.vtu.lt • Number of employees 83 • Number of researchers 54, among them the holders of PhD or higher research degree 44

▪ **The main fields of R&D activities:**

Research, design and improvement of technological processes, mechanical and biomechanical systems

▪ **The most successful directions of R&D activities:**

Coating, adhesion and tribology of sprayed coatings of machine elements and multilayer coating of endoprosthesis

Development of biosignal recognition theory and its practical application

Mathematical modelling, development and investigation of ecologically pure technological processes

Faculty of Transport Engineering

J. Basanavičius 28, LT-03224 Vilnius • Dean: Prof. Habil. Dr. Leonas Povilas Lingaitis • Phone: +370 5 274 5017 • Fax: +370 5 274 4800 • Email: tif@ti.vtu.lt • Number of employees 75 • Number of researchers 50, among them the holders of PhD or higher research degree 37

- **The main fields of R&D activities:**

Investigation of a transport system strategy and development of different types of transport

- **The most successful directions of R&D activities:**

Solutions of mathematical, statistical, physical and engineering problems by Maple package

Evaluation of method of fuel components (methanol and petrol) mixing from the economical, ecological and technological point of view

Research on evaluation parameters of traction rolling-stocks quality's reliability

Research of braking process of transport vehicle with hydraulic brake system parameters

Long-term strategy for Lithuania transport system development

Road traffic safety problems and environmental protection

Antanas Gustaitis Aviation Institute

Rodūnijos kelias 30, LT-02187 Vilnius • Director: Prof. Habil. Dr. Jonas Stankūnas • Phone: +370 5 274 4809 •

Fax: +370 5 274 5058 • Email: avinst@ai.vtu.lt • Number of employees 61 • Number of researchers 29, among them the holders of PhD or higher research degree 9

- **The main fields of R&D activities:**

Air transport system strategy and development of different types of technologies in air transport and its control

- **The most successful directions of R&D activities:**

Development of aviation of the Republic of Lithuania

Modern trends in the development of the aircraft

Satellite navigation systems in aviation

Measurement and control methods of aviation constructions

Human factor analysis in aviation

Institute of Humanities

Saulėtekio 28, LT-10223 Vilnius • Director: Prof. Habil. Dr. Povilas Tamošauskas • Phone: +370 5 2 69 8760 •

Fax: +370 5 269 8695 • E-mail: hinst@hi.vtu.lt • Number of employees 94 • Number of researchers 42, among them the holders of PhD or higher research degree 23

- **The main fields of R&D activities:**

Integration and coordination of various types of linguistic activities in teaching foreign languages

Lithuanian correspondences to foreign (English, German, French) terms and words denoting objects, processes and actions

Scientific language under the conditions of social development

Technical language and special terms

Philosophy of technique

Political philosophy

Psychology of creation

Business ethics

Connection between ethics and economics

Cultural studies
Sociology of education
Educology and sociology of sports

▪ **The most successful directions of R&D activities:**

Theoretical and experimental research of interdependent integration of different types of linguistic activities

Analysis of the semantic structure of lexical English; French and German units and their Lithuanian adequacies

Scientific language under the conditions of social development

Influence of social, cultural and political factors on the development of an individual

Physical development, abilities and functional capacity of students

Centre of Defence Technologies

Rodūnijos kelias 30, LT-02187 Vilnius • Director: Prof. Habil. Dr. Jonas Stankūnas • Phone: +370 5 2 74 48 08 • Fax: +370 5 2 74 50 58 • Email: gtc@ai.vtu.lt • Number of employees 2 • Number of researchers 2, among them the holders of PhD or higher research degree 2

▪ **The main fields of R&D activities:**

Coordination and implementation of scientific works coherent with state defence
Representation of University in international organizations and development of defence technologies

To declare global scientific strides, to stimulate the formation of society open for science, technologies and culture, capable to use science and efficient to compete in high technology market

Innovatory Scientific Institute of Special Structures “Kompozitas”

Saulėtekio 11-2210, LT-10223 Vilnius • Director: Prof. Habil. Dr. Audronis Kazimieras Kvedaras • Phone: +370 5 274 52 27 • Fax: +370 5 237 05 69 • Email: kmi@st.vtu.lt • Number of employees 12 • Number of researchers 12, among them the holders of PhD or higher research degree 8

▪ **The main fields of R&D activities:**

Development of projects based on new applied software adapted for technical building regulations in Lithuania

Research of durability of buildings and lifting mechanisms

Development and experimental structural design of steel, composite and timber structures

Determination of further operation possibilities for exploitable buildings and structures, drafting of projects for reconstruction and restoration

▪ **The most successful directions of R&D activities:**

Investigation and design of high-rise telecommunication structures

Investigation of objects of power industry, drafting of reinforcement and new projects

Institute of Environment Protection

Saulėtekio 11, LT-10223 Vilnius • Director: Prof. Habil. Dr. Pranas Baltrėnas • Phone: +370 5 274 4723 • Fax: +370 5 274 4731 • Email: aai@ap.vtu.lt • Number of employees 14 • Number of researchers 11, among them the holders of PhD or higher research degree 4

- **The main fields of R&D activities:**

Experimental and theoretical investigation of environment and development of environment protection technologies

- **The most successful directions of R&D activities:**

Tests and control of ambient air, water, soil, physical and radioactive pollution and development of environment protection technologies

Waste management: development of regional waste management systems, analysis and simulation of waste, leachate and biogas content and amounts
Computer simulation of pollutant dispersion in ecosystems

Control of air pollution, noise, vibration and irradiation in workplaces

- **Other information:**

The Institute has the Laboratory of Environment Protection and Working Conditions (accredited)

Institute of Internet and Intellectual Technologies

Saulėtekio 11, LT-10223 Vilnius • Director: Prof. Habil. Dr. Edmundas Kazimieras Zavadskas • Phone: +370 5 274 5002 • Fax: +370 5 270 0112 • Email: edmundas.zavadskas@adm.vtu.lt • Number of employees 4 • Number of researchers 3, among them the holders of PhD or higher research degree 3

- **The main fields of R&D activities:**

Development of Web-based intelligent systems to support decisions in different fields of human activity

Development of intelligent tutoring systems, computer learning systems, audio and visual aids, e-books for distant learning

Analysis of e-town systems

- **The most successful directions of R&D activities:**

Development of Web-based intelligent systems to support decisions in different fields of human activities

Development of intelligent tutoring systems, computer learning systems, audio and visual aids, tests, e-books for distant learning

Analysis of e-town systems

Institute of Geodesy

Saulėtekio 11-2210, LT-10223 Vilnius • Director: Prof. Habil. Dr. Petras Petroškevičius • Phone: +370 5 274 4704; +370 5 274 4705 • Fax: +370 5 274 4705 • Email: gi@ap.vtu.lt • Number of employees 17 • Number of researchers 13, among them the holders of PhD or higher research degree 4

- **The main fields of R&D activities:**

Investigation, development and application of geodetic, cartographic technologies and measuring methods and devices

Calibration of geodetic instruments

- **The most successful directions of R&D activities:**

Establishment of Lithuanian National GPS Network

Establishment of First Order Lithuanian National Vertical Network

Establishment of Lithuanian National Gravimetric Network

- **Other information:**

The Institute comprises the Laboratory of Calibration (accredited), which performs the calibration of geodetic instruments

Institute of Open Source

Naugarduko 41, LT-03227 Vilnius • Director: Prof. Habil. Dr. Romanas Martavičius • Phone: +370 5 274 47 65 •

Fax: +370 5 274 47 70 • Email: info@aki.vtu.lt • Number of employees 6 • Number of researchers 5, among them the holders of PhD or higher research degree 4

- **The main fields of R&D activities:**

Opportunities of use for using the open source software (OSS) within authorities, scientific areas business and training

- **The most successful directions of R&D activities:**

Applied research of the open source software

Popularization of open source software

Formation of policy of information technologies

Specialists' professional skill improvement and training programs creation on the open code

Institute of Territorial Planning

Saulėtekio 11, LT-10223 Vilnius • Director: Prof. Dr. Marija Burinskienė • Phone: +370 5 274 5072 •

Fax: +370 5 274 4731 • Email: marbur@ap.vtu.lt • Number of employees 30 • Number of researchers 25, among them holders of PhD or higher research degree 19

- **The main fields of R&D activities:**

Sustainable territory planning

Design of digital maps and data bases, planning of landscape and elements of town

Development of engineering infrastructure and designing of objects

Analysis and development of transport systems, projects for traffic simulation and regulation

Preparation of investment projects for the construction of urban objects, substantiation of urban objects in the context of sustainable development

Preparation of planning standards

- **The most successful directions of R&D activities:**

Sustainable territory planning of regions and urban areas: comprehensive, special and detail plans

Development of tourism in the regions

Analysis and development of urban traffic systems: traffic simulation and impact assessment

Design of digital maps and data bases

Institute of Transport

Plytinės 27, LT-10105 Vilnius • Director: Prof. Habil. Dr. Adolfas Baublys • Phone: +370 5 274 5070 •
Fax: +370 5 269 9711 • Email: genmil@ti.vtu.lt • Number of employees 8 • Number of researchers 7, among
them the holders of PhD or higher research degree 5

▪ The main fields of R&D activities:

Strategy and forecast of transport system activity (logistics, economy)
Methods and strategy of transport infrastructure development
Development of intermodal transport
Interaction and compatibility of the transport network and transportation technologies
Structural changes in transport
Improvement and development of different kinds of transport technologies (safe traffic, environment protection, saving of energy resources)
Investigations and improvement of means of communications and buildings (the present state analysis and renovation of roads, railways, airports, quays of ports and their premises, viaducts, tunnels and their structural value)

▪ The most successful directions of R&D activities:

National programme of transport investigation (modelling of development of intermodal transport; concept of shipping route development)
The application of information technologies for the development of intellectual transport systems and their integration into Tran European transport network

Institute of Welding and Materials Science

J. Basanavičiaus 28, LT-03224 Vilnius • Director: Assoc. Prof. Dr. Nikolaj Višniakov • Phone: +370 5 274 5053 •
Fax: +370 5 274 4740 • Email: suvirinimo-institutas@me.vtu.lt • Number of employees 8 • Number of research-
ers 8, among them holders of PhD or higher research degree 3

▪ The main fields of R&D activities:

Problems of reliability, durability, ageing and weldability of potentially hazardous structures and structural materials
Determination of possibilities of further service of metal structures used in Lithuania energetics
Investigation of advanced materials used in high magnetic field equipment

▪ The most successful directions of R&D activities:

Optimisation of material structure and properties, the improvement of technologies for joining the materials
Modelling of behaviour of structures in order to increase their reliability and durability
Evaluation of safety of nuclear energy objects
Optimisation of high magnetic field pulsed coils design

Laboratory of Buildings, Constructions and Materials

Saulėtekio 11, LT-10223 Vilnius • Supervisor: Prof. Dr. Eugedijus Dulinskas • Phone: +370 5 269 8740 • Fax: +370 5 269 8740 • Email: skmml@st.vtu.lt • Number of employees 51 • Number of researchers 51, among them the holders of PhD or higher research degree 51

- **The main fields of R&D activities:**

Development and application of building materials, structures and technologies, development of testing methods

- **The most successful directions of R&D activities:**

Investigation of the main building of Martynas Mažvydas National Library of Lithuania, scientific analysis of condition and damages for structures and foundations

Created new upside construction of rails in railroad's of Lithuania

- **Other information:**

The Laboratory is certificated for development of projects of structural design, accomplishing the authorised and technical supervision, providing various consultations and expertises of all groups of building structures

Laboratory of Geotechnical Engineering

Saulėtekio 11, LT-10223 Vilnius • Director: Dr. Vytautas Kuliešius • Phone: +370 5 274 5223 • Fax: +370 5 274 5223 • Email: vytask@st.vtu.lt • Number of employees 7 • Number of researchers 6, among them the holders of PhD or higher research degree 1

- **The main fields of R&D activities:**

Identification of soil profiles and determination of soil properties by drilling and sampling, cone penetration tests (CPT) and dynamic penetration tests (DPT)

Determination of bearing capacity of pile foundations

Investigation of the reasons of foundation cracking and footing deformation; projects for footing and foundation reinforcement

New methods for calculation of the bearing capacity of foundation

- **The most successful directions of R&D activities:**

Influence of the methods of pile installation on their bearing capacity

Changes in soil during installation of foundations

Laboratory of Parallel Computing

Saulėtekio 11, LT-10223 Vilnius • Supervisor: Assoc. Prof. Dr. Dalius Mažeika • Phone: +370 5 274 49 13 • Fax: +370 5 270 0112 • Email: dalius.mazeika@fm.vtu.lt • Number of employees 4 • Number of researchers 4, among them holders of PhD or higher research degree 3

- **The main fields of R&D activities:**

Development of Parallel Algorithms for modelling of industrial problems

Development of parallelization tools

- **The most successful directions of R&D activities:**

Nonlinear optics problem

Multiphase flow in porous media

Parallel Discrete Element Method for granular materials flow

Master – slave automatic parallelization toolkit

Tool for parallelization of Branch and Bound algorithms

Parallel C++ Arrays toolkit

- **Other information:**

Laboratory of Parallel Computing have most powerful PC cluster in Lithuania with max performance $R_{max} = 81.9$ Gflops.

Resources of cluster are open to all universities and research institutes of Lithuania

Vilnius Pedagogical University

Studentų 39, LT-08106 Vilnius • <http://www.vpu.lt> • Rector: Prof. Habil. Dr. Algirdas Gaižutis •
Phone: +370 5 279 0281 • Fax: +370 5 279 0548 • Email: rekt.vpu@vpu.lt • Number of employees 796 • Number
of researchers 568, among them the holders of PhD or higher research degree 347

Faculty of Foreign Languages

Studentų 39, LT-08106 Vilnius • Dean: Assoc. Prof. Dr. Algimantas Martinkėnas • Phone: +370 5 279 0164 •
Fax: +370 5 275 0164 • Email: ukf.dekanatas@vpu.lt • Number of employees 82 • Number of researchers 71,
among them the holders of PhD or higher research degree 18

- **The main fields of R&D activities:**

Philology

Science of literature

Educology

- **The most successful directions of R&D activities:**

Linguistic communication: semantic, syntactical and pragmatic aspects of the European languages

Teaching European languages: aspects of his/her professional, cognitive, social and cultural training

Onomastics: investigations into the Baltic names

Faculty of History

T. Ševčenkos 31, LT-03111 Vilnius • Dean: Assoc. Prof. Dr. Vida Kniūraitė • Phone: +370 5 233 2278 •
Fax: +370 5 233 2278 • Email: ifdek@vpu.lt • Number of employees 109 • Number of researchers 78, among
them the holders of PhD or higher research degree 54

- **The main fields of R&D activities:**

History of social ideas and theories

Sociology of politics

Social context of education and its changes in Lithuania

Economics and education management

Human capital in Lithuania

Sociology of education

Methodology of teaching history

History of education in Lithuania

Development of instructional and methodological aids for teaching history

Methodology of teaching Catholic religion

Man existence and problems of his/her social existence

History of Lithuania

- **The most successful directions of R&D activities:**

History of the Lithuanian diplomacy

Economic problems of Lithuania

Philosophical problems in contemporary ethics and education

Faculty of Lithuanian Philology

T. Ševčenkos 31, LT-03111 Vilnius • Dean: Prof. Dr. Petras Bražėnas • Phone: +370 5 233 5299 •

Fax: +370 5 233 5299 • Email: brazenas@vpu.lt • Number of employees 66 • Number of researchers 51, among them the holders of PhD or higher research degree 33

▪ The main fields of R&D activities:

Development, use of the Lithuanian language and the literary norm

Levels of the system of the Lithuanian language and aspects of history

General and comparative literature, theory of literature and criticism.

The changing values in Lithuanian literature

Development of teaching methodology of the Lithuanian language and literature

▪ The most successful directions of R&D activities:

Modern Lithuanian language

Change of values in the Lithuanian literature

Comparative studies of Western European literature

Faculty of Mathematics and Informatics

Studentų 39, LT-08106 Vilnius • Dean: Assoc. Prof. Dr. Gražvydas Leonavičius • Phone: +370 5 275 0363 •

Fax: +370 5 275 0609 • Email: dalter@vpu.lt, matem@vpu.lt • Number of employees 62 • Number of researchers 49, among them the holders of PhD or higher research degree 29

▪ The main fields of R&D activities:

Limiting theorems of the probability theory

Geometry of generalised structures

Boundary (value) problems of elliptic equations with a non-negative characteristic form

Structures of rings and fields

Equivalence relations of logical systems

Methods of global optimisation

Application of information technologies

Didactics of mathematics

History of mathematics

▪ The most successful directions of R&D activities:

The probability theory and mathematical statistics

Geometry of generalised structures

Methods of global optimisation

Faculty of Natural Sciences

Studentų 39, LT-08106 Vilnius • Dean: Assoc. Prof. Dr. Bronislovas Šalkus • Phone: +370 5 275 1224 •

Fax: +370 5 275 1224 • Email: gmfdek@vpu.lt • Number of employees 127 • Number of researchers 79, all with research degrees

▪ The main fields of R&D activities:

Functioning of biological diversity in the environment

Teaching of natural, social and technological disciplines in the reformed school

Biologically active heterocyclic compounds: their properties and application in medicine, agriculture and environmental control

- **The most successful directions of R&D activities:**

Investigations of the gene pool of the willow (*Salix L.*) of Lithuania, assessment and selection of productive clones
Diversity of living creatures in various ecosystems and biomes
Dissemination of geographical information technologies in the comprehensive school

Faculty of Pedagogy and Psychology

Studentų 39, LT-08106 Vilnius • Dean: Assoc. Prof. Dr. Juozas Žilionis • Phone: +370 5 275 2398 •

Fax: +370 5 275 2398 • Email: ppf.dekanatas@vpu.lt • Number of employees 100 • Number of researchers 80, among them the holders of PhD or higher research degree 47

- **The main fields of R&D activities:**

Education during education system restructuring

- **The most successful directions of R&D activities:**

The teacher in the modern school (aspects of health, healthy lifestyle and health education)

Educological peculiarities of future teacher training

Reform of pre-school education and training of educators

Faculty of Physics and Technology

Studentų 39, LT-08106 Vilnius • Dean: Assoc. Prof. Kazys Sadauskas • Phone: +370 5 275 1624 •

Fax: +370 5 275 1732 • Email: fizika@vpu.lt • Number of employees 60 • Number of researchers 34, among them the holders of PhD or higher research degree 29

- **The main fields of R&D activities:**

Development of technologies of growing opals and inversion opals, as well as their filling with the liquid crystal/polymer or metal/semiconductor

Morphological and physical properties of infiltrate structures

Control of the passing light in the photon crystal by means of external factors: electric and magnetic fields, as well as temperature

Development of optic memory control and laser generation in 3D photon structures, development of the artificial eye lens of the controlled focus

Physics and interaction of condensed materials

Multi-particle atom theory

Physics of condensed structures

Non-linear systems

Theoretical and experimental investigation and use of mechanical oscillation systems of high (ultrasound) frequency

- **The most successful directions of R&D activities:**

Investigation of 3D photon crystals filled with the liquid crystal/polymer/metal/semiconductor

Development of the eye lens of the controlled focus

Nano-photon structures

Faculty of Slavic Philology

Studentų 39, LT-08106 Vilnius • Dean: Assoc. Prof. Dr. Gintautas Kundrotas • Phone: +370 5 275 0682; +370 5 275 1604 • Fax: +370 5 275 1604 • Email: slav@vpu.lt • Number of employees 42 • Number of researchers 34, among them the holders of PhD or higher research degree 29

▪ The main fields of R&D activities:

Peculiarities of the Polish language in Lithuania (synchronic and diachronic aspects)

Modern communicative aspects of teaching a foreign language

Perception, analysis and interpretation of a literary text

Russian folklore and ethnic culture: functioning of epic traditions; Russian folklore of Lithuania and ethnic-cultural contacts

Language as a functioning system; functional and typological (theoretical and didactic) studies of the Russian and Lithuanian languages; text interpretation

▪ The most successful directions of R&D activities:

Peculiarities of the Polish language in Lithuania (synchronic and diachronic aspects)

Modern communicative aspects of teaching a foreign language

Perception, analysis and interpretation of a literary text

Social Communication Institute

Studentų 39-321, LT-08106 Vilnius • Director: Giedrė Kvieskienė • Phone: +370 5 275 2290 • Fax: +370 5 275 2290 • Email: spk@vpu.lt • Number of employees 39 • Number of researchers 22, among them the holders of PhD or higher research degree 11

▪ The main fields of R&D activities:

Development of civic education

Positive socialization in society

Social communication in society

Analyze of social educators professional competences

Principles of cultural animation

Resocialization, reintegration

Features of social groups

Development of civic education models in teacher training

▪ The most successful directions of R&D activities:

Civic education

Social science

Social communication

The Institute of Cultural and Arts Education

Studentų 39, LT-08106 Vilnius • Director: Prof. Hab. Dr. Vaidas Matonis • Phone: +370 5 212 35 68 • Fax: +370 5 212 35 68 • Email: kmei@vpu.lt • Number of employees 44 • Number of researchers 34, among them the holders of PhD or higher research degree 14

- **The main fields of R&D activities:**

Contemporary conceptions of arts education

The problems of competence of art subjects educators

Educational possibilities of different art subjects

The problems of art didactics

The investigations of the theoretical and practical problems of efficient music education

The investigation of the role of ethnomusic for education of students' national orientation

The didactic foundations of art teaching at different secondary and higher schools

- **The most successful directions of R&D activities:**

Contemporary conceptions of arts education

The investigations of the theoretical and practical problems of efficient music education

The problems of the competence of art subjects educators

Faculty of Sports and Health

Studentų 39, LT-08106 Vilnius • Dean: Assoc. Prof. Dr. Audronius Vilkas • Phone: +370 5 260 77 46 •

Fax: + 370 5 260 77 48 • Email: a.vilkas@vpu.lt • Number of employees 65 • Number of researchers – 36, among them the holders of PhD or higher research degree 26

- **The main fields of R&D activities:**

Educology of health

Sport science

Methodology of teaching sports

The impact of puberty physical development

- **The most successful directions of R&D activities:**

Scientific management of high performance athletes' training

Vilnius University

Universiteto 3, LT-01513 Vilnius • <http://www.vu.lt> • Rector: Prof. Habil. Dr. Benediktas Juodka •
Phone: +370 5 268 7010 • Fax: +370 5 268 7009 • Email: benediktas.juodka@cr.vu.lt • Number of employees
3287 • Number of researchers 1988, among them the holders of PhD or higher research degree 973

Faculty of Chemistry

Naugarduko 24, LT-03225 Vilnius • Dean: Prof. Habil. Dr. Rolandas Kazlauskas • Phone: +370 5 233 0987 •
Fax: +370 5 233 0987 • Email: chf@chf.vu.lt • Number of employees 132 • Number of researchers 97, among
them the holders of PhD or higher research degree 47

- **The main fields of R&D activities:**

Investigation of instrumental methods of analysis of environmental, industrial and biological objects

Investigation of the interfacial processes

Synthesis and investigation of new functional compounds

Nanotechnology of materials and surfaces

- **The most successful directions of R&D activities:**

Investigation of instrumental methods of analysis of environmental, industrial and biological objects

Investigation of metal oxide multilayer structures and synthesis by the method of chemical vapour deposition

Synthesis and study of chiral supramolecular structures – stereoselectivity and absolute configuration

Faculty of Communication

Visiting address: Saulėtekio 9, LT-10222 Vilnius • Mailing address: Universiteto 3, LT-01513 Vilnius • Dean: Prof. Habil. Dr. Domas Kaunas • Phone: +370 5 236 6101 • Fax: +370 5 236 6104 • Email: dekanas@kf.vu.lt • Number of employees 70 • Number of researchers 60, among them the holders of PhD or higher research degree 22

- **The main fields of R&D activities:**

Bibliology and book culture

Communication and knowledge society

- **The most successful directions of R&D activities:**

Analysis of the information and communication process and models of knowledge society

Changes of the Lithuanian mass media system in 1995–2005

Archives, libraries and Museums in the knowledge society

History of the Lithuanian book and book culture

Faculty of Economics

Saulėtekio 9, LT-10222 Vilnius • Dean: Assoc. Prof. Dr. Birutė Galinienė • Phone: +370 5 236 6122 •
Fax: +370 5 236 6127 • Email: birute.galinieni@ef.vu.lt • Number of employees 165 • Number of researchers
135, among them the holders of PhD or higher research degree 77

- **The main fields of R&D activities:**

Social and economic development of Lithuania in the context of integration into the European Union: modelling and management

Factors of business environment

- **The most successful directions of R&D activities:**

Impact of economic integration on the small open economy: statistic analysis, outlook and management

The Lithuanian economic and social policy in the process of integration to the European Union

Peculiarities of Lithuanian business at the European Union market

Marketing theory and practice towards improving competitiveness of Lithuania's economy

Faculty of History

Universiteto 7, LT-01513 Vilnius • Dean: Prof. Dr. Zenonas Butkus • Phone: +370 5 268 7280 • Fax: +370 5 268 7282 • Email: if@if.vu.lt • Number of employees 84 • Number of researchers 69, among them the holders of PhD or higher research degree 31

- **The main fields of R&D activities:**

Lithuanian history: from the political history of events towards the social and cultural history and sociocultural anthropology

The society of the grand duchy of Lithuania in the 14-18th centuries

Lithuania during the 19th–20th centuries and its neighbours: political, cultural, ethnic conflicts and dialogues

Millennium of Lithuania: from the tribal period to the first writings

- **The most successful directions of R&D activities:**

Lithuanian history: from the political history of events towards the social and cultural history and sociocultural anthropology

Lithuania during the 19th-20th centuries and its neighbors: ethnic, political, cultural conflicts and dialogues

Millennium of Lithuania: from the tribal period to the first writings

Kaunas Faculty of Humanities

Muitines 8, LT-44280 Kaunas • Dean: Assoc. Prof. Stasys Girdzijauskas • Phone: +370 37 42 32 22 • Fax: +370 37 42 32 22 • Email: stasys.girdzijauskas@vukhf.lt • Number of employees 174 • Number of researchers 138, among them the holders of PhD or higher research degree 57

- **The main fields of R&D activities:**

Language and reasoning

Factors of business environment

Information society technologies

- **The most successful directions of R&D activities:**

Cognitive linguistics and literary hermeneutics

Sustainable development and business ethics

Models of intellectual systems and voice technologies

Faculty of Law

Sauletekio 9, 1 c., LT-10222 Vilnius • Dean: Prof. Dr. Vytautas Nekrošius • Phone: +370 236 6162 • Fax: +370 236 6163 • Email: vytautas.nekrosius@tf.vu.lt • Number of employees 95 • Number of researchers 80, among them the holders of PhD or higher research degree 27

- **The main fields of R&D activities:**

Integration of the legal system of the Republic of Lithuania into the legal system of the European Union

- **The most successful directions of R&D activities:**

Theoretical and practical problems of new-enacted norms of Criminal Code
Theoretical problems of the reform of legal system in Lithuania
Theoretical and practical problems in the development of Lithuanian Private Law system, reasoning and application of norms of Civil Law and Civil Procedure

Faculty of Mathematics and Informatics

Naugarduko 24, LT-03225 Vilnius • Dean: Prof. Habil. Dr. Feliksas Ivanauskas • Phone: +370 233 6028 • Fax: +370 215 1585 • Email: maf@maf.vu.lt • Number of employees 179 • Number of researchers 140, among them the holders of PhD or higher research degree 74

- **The main fields of R&D activities:**

Number theory and probabilistic number theory
Probability theory, statistics and combinatorics
Differential equations and their applications
Computer science
Information society technologies

- **The most successful directions of R&D activities:**

Probabilistic number theory problems
Stochastic models and their application to econometrics, finance and actuarial mathematics
The research and application of nonlinear computer, analytical and geometric modelling methods, research and application of methods of data analysis, imaging, video- and audio-signal analysis

Faculty of Medicine

M. K. Čiurlionio 21, LT-03101 Vilnius • Dean: Prof. Habil. Dr. Zita Aušrelė Kučinskienė • Phone: +370 239 8701; +370 239 8700 • Fax: +370 239 8705 • Email: mf@mf.vu.lt • Number of employees 448 • Number of researchers 342, among them the holders of PhD or higher research degree 211

- **The main fields of R&D activities:**

Human genome diversity, its origin and phenotypic realisation
Human and public health, quality of life and environment
Health of mother and child: physiological and social aspects and research on natural development of an individual
Bioethics, health politics, application of new technologies
Etiopathogenesis, diagnostics, treatment, rehabilitation and prevention of diseases: fundamental and clinical research

▪ The most successful directions of R&D activities:

Human molecular genetic and blood genetic markers in the Lithuanian population

Investigation of new risk factors in the pathogenesis of atherosclerosis

Diagnosis, treatment, rehabilitation and prevention of stomatognathic system diseases

Faculty of Natural Sciences

M. K. Čiurlionis 21/27, LT-03101 Vilnius • Dean: Prof. Habil. Dr. Kęstutis Kilkus • Phone: +370 5 239 8201 •

Fax: +370 5 239 8204 • Email: kestutis.kilkus@gf.vu.lt • Number of employees 314 • Number of researchers 181, among them the holders of PhD or higher research degree 107

▪ The main fields of R&D activities:

Plant genotaxonomy and biotechnology of cultivation and reproduction

Bioinformation and behavioural systems

Structure, functions and mutations of biomolecules in model and live systems

Ecosystems and global change

Ecosystems and climate changes, preservation of environment and use of natural resources

Fundamental and applied research on genomics and biotechnology

Social and economic development of Lithuania in the process of integration into the European Union: modelling and management

Evaluation of biodiversity, environmental impact on humans and structure and dynamics of ecosystems applying genomic methods

▪ The most successful directions of R&D activities:

Genotoxicity of anthropogenic and natural factors

Barrier Properties of Biological Membranes

Biochemical Mechanisms of Cytotoxic Cell Death

Investigation of Clinical Significance of the Molecular Components of Cellular Response to Environmental Factors

Ecosystems and global changes

Integrated research of development of ecosystems

Impact of the Lithuanian military training grounds on the development of natural ecosystems

Response of the hydrosphere to the climate fluctuations

Faculty of Philology

Universiteto 5, LT-01122 Vilnius • Dean: Prof. Habil. Dr. Bonifacas Stundžia • Phone: +370 5 268 7207 •

Fax: +370 5 268 7208 • Email: flf@ff.vu.lt • Number of employees 273 • Number of researchers 227, among them the holders of PhD or higher research degree 98

▪ The main fields of R&D activities:

Baltic languages: synchronic and diachronic analysis

Lithuanian literature: history and the present

Ancient Greek and Roman civilization and its traditions

Philosophy of language, semantics, semiotics
Slavic languages and literature: history and contemporary developments
Germanic languages and literature: structure and functioning
Romance languages and literature

▪ **The most successful directions of R&D activities:**

Diachronic and synchronic studies of lexicon, accentology and grammatical structure of the Baltic languages
Writings in Latin and traditions of Ancient Greek and Roman in the Lithuanian literature

Faculty of Philosophy

Universiteto 9/1, LT-01513 Vilnius • Dean: Assoc. Prof. Dr. Kęstutis Dubnikas • Phone:/Fax: +370 5 266 76 01 • Fax: +370 5 266 76 00 • Email: fsf@fsf.vu.lt • Number of employees 135 • Number of researchers 119, among them the holders of PhD or higher research degree 56

▪ **The main fields of R&D activities:**

The investigation of psychosocial wellbeing of different community groups
Methodological analysis of the development of philosophical discourse
The role of philosophy in the process of globalization of local cultures
The impact of social transformations on the development of personality
Cross-cultural education of pupils and students in the eurointegration conditions
Educational management in the context of sustainable development
Information technologies of transducers and neural nets
Investigation of psychophysiological mechanism of human perception
Psychological aspects of legal relations
The development of social services and social work
Employment and social policy
Multidimensional functioning of personality: theoretical, methodological and practical aspects
Social discourses and action

▪ **The most successful directions of R&D activities:**

The role of philosophy in the process of globalization of local cultures
Educational management in the context of sustainable development
Investigation of psychophysiological mechanism of human perception
Multidimensional functioning of personality: theoretical, methodological and practical aspects
Educational management in the context of sustainable development

Faculty of Physics

Saulėtekio 9, b. III, LT-10222 Vilnius • Dean: Prof. Habil. Dr. Jūras Banys • Phone: +370 5 236 6000; +370 5 236 6001 • Fax: +370 5 236 6003 • Email: juras.banys@ff.vu.lt • Number of employees 187 • Number of researchers 146, among them the holders of PhD or higher research degree 80

▪ The main fields of R&D activities:

Surface, nano-systems, materials technologies

Structure and evolution of stars, interstellar matter and galaxies

Optical, microwave, acoustic and noise spectroscopy

Physics of atoms, molecules and condensed matter

Parametric light phenomena in crystals, liquids and gases

Light technologies

Influence of technology on electric and photoelectric features of disordered structures

Non-destructive materials control and metrology

Information society technologies

Structure of biomolecules, functions and transitions in model and live systems

New functional materials and chemical compositions: synthesis, self-ordering and investigation of properties

Methods of analysis of environmental and industrial objects and development of devices this analysis

Non-equilibrium phenomena in crystals, disordered materials and nano-structures

Biomedical optics: fundamental, applied and clinical investigation

▪ The most successful directions of R&D activities:

Creation of new semiconductor, ferroelectric, superionic and disordered compounds operating on the basis of new physical principles, production of prototypes and development of their applications

Fundamental investigation of ultrafast processes in nonlinear optical and laser systems

Investigation of optical excitation and relaxation dynamics in ordered organic structures and biological pigments

Institute of Foreign Languages

Universiteto 5, LT-01513 Vilnius • Director: Assoc. Prof. Dr. Nijolė Bražėnienė • Phone: +370 5 268 7266 •

Fax: +370 5 268 7265 • Email: nijole.brazeniene@uki.vu.lt • Number of employees 120 • Number of researchers 113, among them the holders of PhD or higher research degree 23

▪ The main fields of R&D activities:

World languages and literatures: the past and the present

Applied linguistics

▪ The most successful directions of R&D activities:

Research of the structures (grammatical, lexical, semantic and stylistic peculiarities) of the Germanic, Roman and Lithuanian languages, their integration into the teaching process and lexicographic practice

Research of the American, English and German literature and culture, their correlation with the Lithuanian literature and culture

Institute of International Relations and Political Science

Vokiečių 10, LT-01130 Vilnius • Director: Prof. Dr. Raimundas Lopata • Phone: +370 5 251 4130 • Fax: +370 5 251 4134 • Email: tspmi@tspmi.vu.lt • Number of employees 56 • Number of researchers 41, among them the holders of PhD or higher research degree 17

- **The main fields of R&D activities:**
Citizens, governance, and security in globalisation perspective
- **The most successful directions of R&D activities:**
EU enlargement and institution reform
Lithuanian foreign policy and the development of the diplomacy
Institutionalisation of political system of Lithuania

Institute of Materials Science and Applied Research

Saulėtekio 9, block III, LT-10222 Vilnius • Director: Prof. Habil. Dr. Artūras Žukauskas • Phone: +370 5 236 6059 • Fax: +370 5 236 6059 • Email: arturas.zukauskas@ff.vu.lt • Number of employees 87 • Number of researchers 64, among them the holders of PhD or higher research degree 30

- **The main fields of R&D activities:**
Bioinformation and behaviour systems
Biomedical optics: fundamental, applied and clinical research
Development of methods and instruments for environmental and industrial control
Non-equilibrium phenomena in crystals and disordered and nanostructures
Technology of materials, surface, and nanostructures
Non-destructive control and metrology of materials
Semiconductor technologies of light
Information society technologies
Precise organic synthesis
- **The most successful directions of R&D activities:**
Analysis and technology of atomic self-organization on crystal surfaces and in thin-film structures
New methods and instruments for non-destructive characterization of semi-conductors
Effective lighting for the 21st century

A. J. Greimas Centre for Semiotic Studies and Research

Universiteto 3, LT-01513 Vilnius • Head: Assoc. Prof. Dr. Dalia Satkauskytė • Phone: +370 5 268 7161 • Email: Greimocentras@cr.vu.lt • Number of employees 2 • Number of researchers 1, among them the holders of PhD or higher research degree 1

- **The main fields of R&D activities:**
Literary and linguistic theory, semiotics, hermeneutics
- **The most successful directions of R&D activities:**
Hermeneutic and semiotic analysis of social, political, literary and philosophical texts

Centre of Oriental Studies

Universiteto 5, LT-01513 Vilnius • Head-in-charge: Assoc. Prof. Audrius Beinorius • Phone: +370 5 268 7256 • Fax: +370 5 268 7256 • Email: oc@cr.vu.lt • Number of employees 9 • Number of researchers 7, among them the holders of PhD or higher research degree 2

- **The main fields of R&D activities:**
Oriental and comparative culture studies
- **The most successful directions of R&D activities:**
Asian and Middle East cultures and their reception in the West
Buddhist philosophy, religion and culture
Asian languages and literary traditions

Centre for Religion Studies and Research

Universiteto 9/1, LT-01513 Vilnius • Head: Prof. habil. Dr. Rita Šerpytytė • Phone: +370 5 266 76 13, +370 5 268 71 89 • Fax: +370 5 268 71 89 • Email: rita.serpytyte@rstc.vu.lt • Number of employees 5 • Number of researchers 3, among them the holders of PhD or higher research degree 3

- **The main fields of R&D activities:**
Interdisciplinary research of religion
- **The most successful directions of R&D activities:**
Religion and culture
Religion in the contemporary visual culture
Contemporary religiosity

Gender Studies Centre

Universiteto 3-39, LT-01513 Vilnius • Head: Assoc. Prof. Dalia Marcinkevičienė • Phone/Fax: +370 5 268 7163
Email: lsc@cr.vu.lt • Number of employees 2 • Number of researchers 1, among them the holders of PhD or higher research degree 1

- **The main fields of R&D activities:**
Gender studies
- **The most successful directions of R&D activities:**
Analysis of equal opportunities policy in Lithuania
History of women in Lithuania
Gender studies thesaurus

Health and Sports Centre

Saulėtekio 2, LT-10222 Vilnius • Director: Prof. Habil. Dr. Jonas Jankauskas • Phone: +370 5 269 8720 • Phone/Fax: +370 5 269 8856 • Email: sveikata.sportas@ssc.vu.lt • Number of employees 31 • Number of researchers 14, among them the holders of PhD or higher research degree 6

- **The main fields of R&D activities:**

Student physical culture and sports: pedagogical, psychological and biological aspects

- **The most successful directions of R&D activities:**

Student physical culture and development of sports process

International Centre of Knowledge Economy and Knowledge Management

Visiting address: Saulėtekio 9, I building, 503 room, LT-10222 Vilnius • Mailing address: Universiteto 3, LT-01513 Vilnius • Director: Prof. Renaldas Gudauskas • Phone: +370 5 236 6107 • Fax: +370 5 236 6108 • Email: info@tzc.vu.lt • Number of employees 15 • Number of researchers 9, among them the holders of PhD or higher research degree 2

- **The main fields of R&D activities:**

Strategic knowledge management and knowledge economy in the global information society

- **The most successful directions of R&D activities:**

Tendencies of information society in the context of knowledge management and knowledge economy

Vytautas Magnus University

K. Donelaičio 58, LT-44248 Kaunas • <http://www.vdu.lt> • Rector: Prof. Habil. Dr. Vytautas Kaminskas •
Phone: +370 37 20 67 53 • Fax: +370 37 20 38 58 • Email: rektoratas@vdu.lt • Number of employees 907 •
Number of researchers 456, among them the holders of PhD or higher research degree 229

Faculty of Catholic Theology

Gimnazijos 7, LT-44260 Kaunas • Dean: Prel. Assoc. Prof. Dr. Vytautas Steponas Vaičiūnas •
Phone: +370 37 20 54 89 • Fax: +370 37 32 34 77 • Email: dek@ktf.vdu.lt • Number of employees 40
Number of researchers 32, among them the holders of PhD or higher research degree 19

▪ The main fields of R&D activities:

Investigation of archives of the Lithuanian church institutions and parish
Sacral manners of Lithuanian Catholics, their local peculiarities
The analysis of several Lithuanian spiritual schools of monkshood and their
importance for today
Investigation of translations of the Holy Scripture into Lithuanian
Ecumenical theology

▪ The most successful directions of R&D activities:

Investigation of diocese and parish archives
The problem of contemporary ecumenical theology
The Holy Scripture today
Investigation of problems of family and marriage

Faculty of Economics and Management

S. Daukanto 28, LT-44246 Kaunas • Dean: Prof. Habil. Dr. Pranas Žukauskas • Phone: +370 37 32 78 50 •
Fax: +370 37 32 32 08 • Email: dek@evf.vdu.lt • Number of employees 28 • Number of researchers 40, among
them the holders of PhD or higher research degree 18

▪ The main fields of R&D activities:

Innovative changes in economics and management in the context of globali-
sation

▪ The most successful directions of R&D activities:

Development of business infrastructure system
Modelling of the Lithuanian finance system
Economic development and globalisation

Faculty of the Humanities

K. Donelaičio 52, LT-44244 Kaunas • Dean: Prof. Habil. Dr. Romualdas Apanavičius • Phone: +370 37 32 33 34 •
Fax: +370 37 32 36 89 • Email: dek@hmf.vdu.lt • Number of employees 83 • Number of researchers 52, among
them the holders of PhD or higher research degree 45

▪ The main fields of R&D activities:

Lithuanian synchronic and diachronic linguistics
Computational and corpus linguistics
Ethnology, modern culture
The role of philosophy in contemporary (post-communist) society

Applied historical linguistics, foreign language learning
Research on the relationship between the people and the state in the history of Lithuania and other Central and Eastern European countries
The issues of 20th century Lithuanian literature

- **The most successful directions of R&D activities:**

Onomastics

Development of electronic resources in the Lithuanian language (text and sound corpora) and the automatic analysis of language units

Development of modern Lithuanian nation

Investigation of Lithuanian, English, German and French literature

Faculty of Informatics

Vileikos 8, LT-44404 Kaunas • Dean: Dr. Arimantas Juvencijus Raškinis • Phone: +370 37 32 79 00 •

Fax: +370 37 32 78 96 • Email: dek@if.vdu.lt • Number of employees 34 • Number of researchers 38, among them the holders of PhD or higher research degree 17

- **The main fields of R&D activities:**

Development of mathematical methods used for control, optimisation and design of various physical and information systems

Application of statistical and mathematical methods: evaluation of risk and reliability, economic modelling, the analysis of medical processes and other areas

Research of non-linear dynamic systems applying approximate analytical and digital methods

- **The most successful directions of R&D activities:**

Analysis, modelling, control and design of systems

Computational models of speech and music signals, identification methods and resource creation

Hazard analysis of dangerous technical objects

Faculty of Natural Sciences

Vileikos 8, LT-44404 Kaunas • Dean: Assoc. Prof. Dr. Donatas Mickevičius • Phone: +370 37 32 79 01 •

Fax: +370 37 32 79 16 • Email: dek@gmf.vdu.lt • Number of employees 56 • Number of researchers 72, among them the holders of PhD or higher research degree 34

- **The main fields of R&D activities:**

Environmental and climatic changes and their complex impact on vegetation and human health

Molecular ecology

Biophysics

Synthesis and characterization of chromatographic materials and development of novel separation techniques, particularly, microanalytical methods

Nuclear theory

Physical transport phenomena

- **The most successful directions of R&D activities:**
Genetic information variability and expression, regulation and adaptation of energetic processes in cell
Synthesis of sorbets and their application in direct analysis of biological liquids
Research of material transfer phenomena under radiation effect

Faculty of Social Sciences

K. Donelaičio 52-301, LT-44244 Kaunas • Dean: Prof. Habil. Dr. Rimantas Laužackas • Phone: +370 37 32 31 31; +370 37 32 78 20 • Fax: +370 37 32 78 23 • Email: dek@smf.vdu.lt • Number of employees 48 • Number of researchers 61, among them the holders of PhD or higher research degree 27

- **The main fields of R&D activities:**
Educational and management dimensions of lifelong learning
Lifelong learning in the aspects of educational systems of society
Investigation of changes in vocational training
Psychological adaptation problems of habitants of different age stages from the perspectives of health, personality and cognitive psychology
Society and groups: social changes, tendencies and sameness processes
- **The most successful directions of R&D activities:**
The content and management of vocational training
Adult education and studies
Society and groups: social changes, tendencies and sameness processes

Political Sciences and Diplomacy School

Gedimino 44., LT-44240 Kaunas • Director: Prof. Dr. Leonidas Donskis • Phone: +370 37 20 67 09 • Fax: +370 37 20 67 09 • Email: dir@pmdi.vdu.lt • Number of employees 25 • Number of researchers 18, among them the holders of PhD or higher research degree 15

- **The main fields of R&D activities:**
Research of social-political processes in the global, European, national and local contexts
The civil service reform, local self-government and regional politics
Media in the context of transformations
- **The most successful directions of R&D activities:**
Local self-government and regional politics
Media systems and journalistic cultures in European Post-communist countries
The issues of ethnopolitics and national minorities

School of Fine Arts

Laisvės 53, LT-44309 Kaunas • Dean: Prof. Habil. Dr. Vytautas Levandauskas • Phone: +370 37 32 78 77 • Fax: +370 37 20 38 58 • Email: dek@mf.vdu.lt • Number of employees 21 • Number of researchers 30, among them the holders of PhD or higher research degree 11

- **The main fields of R&D activities:**

Iconographic objects of the Lithuanian art

Cultural relations among the Baltic countries (Lithuania, Poland, Latvia, Estonia, Russia) and their artistic peculiarities

Characteristics of the Lithuanian landscape in the context of European integration

History of the Lithuanian theatre criticism

Analysis of the Lithuanian theatre processes in the context of contemporary cultural theories

- **The most successful directions of R&D activities:**

Cultural heritage of the Baltic region

Peculiarities of the Lithuanian landscape in the context of European integration

Analysis of the Lithuanian theatre processes in the context of contemporary cultural theories

School of Law

S. Daukanto 28, LT-44246 Kaunas • Director: Dr. Tadas Klimas • Phone: +370 37 32 78 73 • Fax: +370 37 32 78 72 • Email: dir@ti.vdu.lt • Number of employees 13 • Number of researchers 4, among them the holders of PhD or higher research degree 3

- **The main fields of R&D activities:**

Reform of the legal system of Lithuania

Transnational law

Comparative law

- **The most successful directions of R&D activities:**

Theoretical and practical problems concerning the implementation of the rules of the new Civil Code

Reception of the European Union law

School of Social Work

K. Donelaičio 52-408, LT-44244 Kaunas • Director: Assoc. Prof. Dr. Artūras Jagelavičius • Phone: +370 37 32 78 46; +370 37 32 78 47 • Fax: +370 37 32 78 46 • Email: dir@sdi.vdu.lt • Number of employees 22 • Number of researchers 14, among them the holders of PhD or higher research degree 6

- **The main fields of R&D activities:**

How to integrate social work practice, social policy, social research within the national and global context

- **The most successful directions of R&D activities:**

Research of community, family and individual needs in context of social services

The development of social work research

The search for possibilities for increasing of social inclusion

Centre of Computational Linguistics

K. Donelaičio 58, LT-44248 Kaunas • Head: Prof. Habil. Dr. Rūta Marcinkevičienė • Phone: +370 37 32 78 41 • Fax: +370 37 20 38 58 • Email: ruta@hmf.vdu.lt • Number of employees 11 • Number of researchers 7, among them the holders of PhD or higher research degree 5

- **The main fields of R&D activities:**

Corpus linguistics

Computational linguistics

- **The most successful directions of R&D activities:**

Lithuanian language technologies

Morphological tagging and parsing of Lithuanian language

Statistical processing of corpora

Corpus based lexicography

Machine translation from English to Lithuanian

Speech recognition and synthesis

Centre of Environmental Research

Vileikos 8, LT-44404 Kaunas • Head: Prof. Habil. Dr. Vida Mildažienė • Phone: +370 37 45 13 87 • Fax: +370 37 45 13 81 • Email: atc@gmf.vdu.lt • Number of employees 9 • Number of researchers 9, among them the holders of PhD or higher research degree 5

- **The main fields of R&D activities:**

Dendrochronological research

Retrospective research of radial increments of trees for environmental reconstruction and forecast purposes

Molecular mechanisms of action of environmental pollution on energy metabolism

Analysis of multi-site action polychlorinated biphenyls and heavy metal (Cd²⁺, Cu²⁺) ions effect on oxidative phosphorylation system in liver mitochondria and the synergy effect

- **The most successful directions of R&D activities:**

Compilation series of long-lived tree-rings

Research on radial increment of trees

Research on molecular mechanism effect of environmental pollution on energy metabolism in liver

Centre of Foreign Languages

K. Donelaičio 52-603, LT-44244 Kaunas • Director: Assoc. Prof. Dr. Nemira Mačianskienė • Phone: +370 37 32 78 45 • Fax: +370 37 32 78 45 • Email: dir@ukc.vdu.lt • Number of employees 49 • Number of researchers 47, among them the holders of PhD or higher research degree 2

- **The main fields of R&D activities:**

Applied linguistics

- **The most successful directions of R&D activities:**

Foreign language teaching and learning methodology

Language learning strategies

Centre for Latvian Studies

K. Donelaičio 52-505, LT-44244 Kaunas • Head: Assoc. Prof. Dr. Alvydas Butkus • Phone: +370 37 32 78 40 • Fax: +370 37 32 78 40 • Email: lc@hmf.vdu.lt • Number of employees 4 • Number of researchers 4, among them the holders of PhD or higher research degree 1

- **The main fields of R&D activities:**

Baltic linguistics, literature, ethnoculture

- **The most successful directions of R&D activities:**

Baltic lexicology and lexicography

Onomastics

Baltic literature and ethnology

Language policy in Baltic States

Centre for Lithuanian Diaspora Studies

S. Daukanto 25, LT-44249 Kaunas • Head: Prof. Habil. Dr. Egidijus Aleksandravičius • Phone: +370 37 32 78 39 • Fax: +370 37 32 36 89 • Email: isc@fc.vdu.lt • Number of employees 7 • Number of researchers 6, among them the holders of PhD or higher research degree 5

- **The main fields of R&D activities:**

Cultural history of the Lithuanian Diaspora

History of the Lithuanian Diaspora literature

- **The most successful directions of R&D activities:**

Research on ideological trends of the Lithuanian Diaspora

Cultural and literary activities after the World War II

Intellectual activities of the Diaspora

Contemporary Lithuanian emigration

Cz. Miłosz Centre for Slavonic Studies

Laisvės al. 52 - 205, LT-44244 Kaunas • Head: Assoc. Prof. Dr. Asija Kovtun • Phone: +370 37 32 78 43 • Fax: +370 37 20 38 58 • Email: Asija_Kovtun@fc.vdu.lt • Number of employees 9 • Number of researchers 9, among them the holders of PhD or higher research degree 6

- **The main fields of R&D activities:**

Studies of Cz. Miłosz heritage in Lithuania

Slavonic studies in Lithuania

Cultural and ethnic identity of Russians in Lithuania

- **The most successful directions of R&D activities:**

Researches concerning the relations of Cz. Miłosz and the Lithuanian cultural heritage

Russistics in Lithuania: intercultural and interdisciplinary studies

Russian community in Lithuania (1918–1940)

Russians in Lithuanian university

Centre for Quality of Studies

Laisvės 53-510, LT-44309 Kaunas • Head: Prof. Habil. Dr. Kęstutis Pukelis • Phone: +370 37 327940 • Fax: +370 327940 • Email: skc@skc.vdu.lt • Number of employees 3 • Number of researchers 2, among them the holders of PhD or higher research degree 2

- **The main fields of R&D activities:**

Quality assessment and evaluation in Higher Education

Quality management in Higher Education

- **The most successful directions of R&D activities:**

The methodology of evaluation of study programmes

Quality dimensions and assessment criteria of higher education institutions

Modelling quality management systems for Higher Education

Kaunas Botanical Garden

Ž. E. Žiliberio 6, LT-46324 Kaunas • Director: Dr. Remigijus Daubaras • Phone: +370 37 39 00 33 • Fax: +370 37 39 01 33 • Email: bs@bs.vdu.lt • Number of employees 82 • Number of researchers 11, among them the holders of PhD or higher research degree 8

- **The main fields of R&D activities:**

Introduction technologies of plants

- **The most successful directions of R&D activities:**

Vegetal dietary supplements

Accumulation, research and evaluation of genetic resources of adopted and native plant in Lithuania and selection of perspective types and species

Impact of environmental factors on the introduction technologies of plants

Private University

ISM University of Management and Economics

E. Ožėškienė 18, LT-44254 Kaunas • President: Dr. Virginijus Kundrotas • Phone: +370 37 30 24 02 • Fax: +370 37 30 23 68 • Email: ism@ism.lt • Number of employees 121 • Number of researchers 37, among them the holders of PhD or higher research degree 21

- **The main fields of R&D activities:**

Department of organizational economics and strategy:

Strategic management; economics; organizational science; project management; financial management; marketing management

Department of intellectual capital and business competence:

Intellectual capital; leadership and organizational psychology; human resource management and development; higher education strategy and didactics; international business; change and organization development;

Public administration and social and corporate responsibility; social science methodology

- **The most successful directions of R&D activities:**

Change and organization development

Innovative entrepreneurship and strategic management;

Creative management and leadership

State Colleges

Alytus College

Merkinės 2B, LT-62252 Alytus • <http://www.akolegija.lt> • Director: Vytautas Lubauskas • Phone: +370 315 79 075 • Fax: +370 315 79 132 • Email: rastal@akolegija.lt • Number of employees 103 • Number of researchers 39, among them the holders of PhD or higher research degree 7

- **The main fields of R&D activities:**

Information technologies
Development of software
Computer networks
Data base engineering
Internet technologies
Business and administration
Marketing
Trade
Company finance
Transport engineering

- **The most successful directions of R&D activities:**

Development of knowledge society implementing innovative study programmes and improving quality of studies
Implementation of mechatronics in Alytus county SMEs

Kaunas College

Pramonės 20, LT-50468 Kaunas • <http://www.kauko.lt> • Director: Mindaugas Misiūnas • Phone: +370 37 35 23 24 • Fax: +370 37 75 11 35 • Email: rastine@kauko.lt • Number of employees 1074 • Number of researchers 44, among them the holders of PhD or higher research degree 11

- **The main fields of R&D activities:**

Foreign language philology
Technology of arts
Total quality management
Finance management and marketing
Business administration
Recreation and tourism
Social work
Ecology and environmental research
Introduction technologies of the plants
Odontology
Pharmacy
Rehabilitation
Nursing
Land management

- **The most successful directions of R&D activities:**

Technological research for meat and dairy enterprises

Optimization of decorative and garden plants assortment, technology and environment.

Ordered marketing research

Modelling of quality system in Kaunas College

Educational research on teachers' competence

Kaunas College of Forestry and Environmental Engineering

Liepų 1, Girionys, LT-53101 Kaunas distr. • <http://www.kmaik.lm.lt> • Director: Assoc. Prof. Dr. Albinas Tebėra • Phone: +370 37 38 31 40 • Fax: +370 37 38 31 38 • Email: info@kmaik.lm.lt • Number of employees 112 • Number of researchers 41, among them the holders of PhD or higher research degree 14

- **The main fields of R&D activities:**

Stability of forest ecosystems and optimisation of technological processes in forest operations

Landscape design and architecture

Analysis of land use formation and the economic substantiation of its structure

Complex evaluation of the Lithuanian landscape in the European cultural context

Geofiltration studies

Assessment of the technical condition of hydrotechnical systems

Forecasting of flooding in the estuary of the Nemunas and the development of the system for estimation of economic and ecological damage

Development of mobile irrigation systems for the farmland and determination of irrigation regime for berry crops

Studies on the state of hydrotechnical constructions

- **The most successful directions of R&D activities:**

Forest regeneration and stand formation

Harvesting technologies of timber assortments

Analysis of land use formation and the economic substantiation of its structure

Kaunas Technical College

Tvirtovės 35, LT-50115 Kaunas • <http://www.ktk.lt> • Director: Assoc. Prof. Dr. Jonas Krivickas • Phone: +370 37 30 86 20 • Fax: +370 37 33 31 20 • Email: ktk@ktk.lt • Number of employees 196 • Number of researchers 53, among them the holders of PhD or higher research degree 14

- **The main fields of R&D activities:**

Electrical engineering

Electronic engineering

Civil engineering

Transport engineering

Social educational research

- **The most successful directions of R&D activities:**

The decrease of motor vehicle efficiency, the diagnostics of system parameters and technical state

Diagnostics of low voltage circuits, the reliability testing of automatic switches
Methodology for the identification of the barriers to the implementation of educational innovations and its application in systematic innovation

Klaipėda Business and Technology College

Jaunystės 1, LT-91274 Klaipėda • <http://www.klvtk.lt> • Director: Artūras Kiguolis • Phone: +370 46 48 91 32 • Fax: +370 46 31 45 75 • Email: office@klvtk.lt • Number of employees 300 • Number of researchers 70

- **The main fields of R&D activities:**

Curriculum and methods of vocational training

- **The most successful directions of R&D activities:**

Evaluation of business management career education standard

Labour market requirements for the changes in teaching and learning methods for vocational training

Links between changes in society and education

Investigation of fine aerosol particles properties and dynamics in coastal zone of Baltic sea

Teaching and learning methods used in practical training

Problem of making valuable attitude towards electroni-teaching in respect of the conditions of applying pedagogical technologies

Systematic colleges development in the context of putting Lithuanian high education reform into practice

Klaipėda College

Dariaus ir Girėno 8, LT-92255 Klaipėda • <http://www.klk.lt> • Director: Antanina Šereivienė • Phone: +370 46 31 45 72 • Fax: +370 46 31 16 30 • Email: klkdirektoratas@klaipeda.balt.net • Number of employees 112 • Number of researchers 30, among them the holders of PhD or higher research degree 2

- **The main fields of R&D activities:**

Competences of teachers

Ethical values and the ethics in health care

Professional competence of social workers and health care specialists

- **The most successful directions of R&D activities:**

Education of human dignity in contemporary groups

Child road traffic injury prevention

Expression of fault-finding at school and pedagogical prevention model

Resistance exercise impact on heart rate variability and muscle stiffness for patient suffering from ischemic heart disease

Burnout prevention in education process of health and social care specialists

Lithuanian Maritime College

I. Kanto 7, LT-92123 Klaipėda • <http://www.lmc.lt> • Director: Dr. Viktoras Senčila • Phone: +370 46 39 72 40 • Fax: +370 46 39 72 40 • Email: direktorius@ji.ku.lt • Number of employees 52 • Number of researchers 17, among them the holders of PhD or higher research degree 2

- **The main fields of R&D activities:**

Improvement of operation of internal combustion engines, running on multiple-choice fuel (in cooperation with Klaipėda University)

Maritime Education, Training and Mobility of Seafarers

Reduction of the environmental impact of maritime transport

Efficiency and development of water transport systems

Ecology, psychology and culture of a sailor as an individual

- **The most successful directions of R&D activities:**

Kinetics, heat emission dynamics and emission of dangerous substances by internal combustion engines, running on multiple-choice fuel (in cooperation with Klaipėda University)

Marijampolė College

V. Kudirkos 61, LT-68303 Marijampolė • <http://www.marko.lt> • Director: Sigitas Valančius • Phone: + 370 343 50 750; + 370 343 54 388 • Fax: + 370 343 50 750 • Email: direkcija@marko.lt • Number of employees 380 • Number of researchers 10

- **The main fields of R&D activities:**

Education

Management

Business administration

Psychology

- **The most successful directions of R&D activities:**

Educational research on the development of teachers' competencies and the improvement of the activity quality

Research on the enterprise and/or organization marketing, quality and changes

Panevėžys College

Laisvės 23, LT-35200 Panevėžys • <http://www.panko.lt> • Director: Dr. Kęstutis Gudas • Phone: +370 45 46 03 23 • Fax: +370 45 58 11 65 • Email: kolegija@panko.lt • Number of employees 320 • Number of researchers 5, among them the holders of PhD or higher research degree 1

- **The main fields of R&D activities:**

The fields of activity of a social worker and possibilities of establishment of new work places

Organization of community care

Human resources management problems

Application of information technologies to control industrial processes and in modern information society

Šiauliai College

Aušros 40, LT-76241 Šiauliai • <http://www.siauliukolegija.lt> • Director: Natalija Šedžiuvienė • Phone: +370 41 52 37 68 • Fax: +370 41 52 50 91 • Email: administracija@siauliukolegija.lt • Number of employees 146 • Number of researchers 14, among them the holders of PhD or higher research degree 1

- **The main fields of R&D activities:**

Educology
Linguistics
Marketing
Social work
Transport engineering

- **The most successful directions of R&D activities:**

Analysis of pedagogical competency of teachers
Students competence
Assessment of professional competence
Medical terminology
Students employment
The implementation of new methods into social work
Application of Information Technologies in production process

Utena College

Maironio 7, LT-28142 Utena • <http://www.utenos-kolegija.lt> • Director: Vida Stasiulionienė • Phone: +370 389 51 615 • Fax: +370 389 51 662 • Email: administracija@utenos-kolegija.lt • Number of employees 301 • Number of researchers 103, among them the holders of PhD or higher research degree 7

- **The main fields of R&D activities:**

Solution of various social problems by means of activities of social workers and social pedagogues
The issues of study process and its improvement in the College
The activities of health care and social care, business and technology institutions and their employees, their development possibilities

- **The most successful directions of R&D activities:**

Social-educational work with the clients facing various problems
Management of enterprises, organizational marketing, changes, quality and human resources
Issues of the development of the studies at the College

Vilnius College

J. Jasinskio 15, LT-01111 Vilnius • <http://www.viko.lt> • Director: Dr. Gintautas Bražiūnas • Phone: +370 5 249 8107
Fax: +370 5 249 7909 • Email: viko@viko.lt • Number of employees 450 • Number of researchers 22, among them the holders of PhD or higher research degree 15

- **The main fields of R&D activities:**

Quality of studies
Demand for study programmes

Management and business administration
Placement of the specialists
Development of methodology of distant learning modules for employees of enterprises
Public health
Electronic engineering
Information engineering
Educology

▪ **The most successful directions of R&D activities:**

Implementation of information and communication technologies in vocational training areas
Electronics and telecommunication specialist vocational training areas, professional competencies and goals of studies
Links between specialist training and demand for and application of accounting software systems at companies
Business environment analysis following accession to the EU
Developing of communication competencies in students at Lithuanian colleges
Evaluation of honey from the hygiene viewpoint and the spread of bee diseases in apiaries across the district of Vilnius
Structural and dynamic peculiarities of ties between creativity and motivation in art students
Training of specialist in the fields of healthcare, business and technology
Expert evaluation of vocational training standards, projects, studies and curriculums

Vilnius College of Construction and Design

Antakalnio 54, LT-10303 Vilnius • <http://www.vsdk.lt> • Director: Nijolė Kikutienė • Phone: +370 5 234 1524 • Fax: +370 5 234 3769 • Email: info@vsdk.lt • Number of employees 314 • Number of researchers 84, among them the holders of PhD or higher research degree 9

▪ **The main fields of R&D activities:**

Construction engineering
Transport engineering
Art education

▪ **The most successful directions of R&D activities:**

Building materials
Diagnostics of railway rolling stock assets
Railway traffic management
Cultural heritage
History of advertising and design

Vilnius Technical College

Olandų 16, LT-01100 Vilnius • <http://www.vtk.lt> • Director: Algimantas Piliponis • Phone: +370 5 261 0341 • Fax: +370 5 262 1569 • Email: vtk@vtk.lt • Number of employees 133 • Number of researchers 4

- **The main fields of R&D activities:**

Electric engineering

Transport engineering

Mechanical engineering

Management and business administration

- **The most successful directions of R&D activities:**

Exploitation properties and parameters of DC engines

Social and linguistic aspects in modern science and higher education

Žemaitija College

Ivinskio 5, LT-90311 Rietavas • <http://www.zemko.lt> • Director: Jonas Bačinskas • Phone: +370 448 68 471 • Fax: +370 448 68 584 • Email: zemko@zemko.lt • Number of employees 263 • Number of researchers 38

- **The main fields of R&D activities:**

Quality of studies

Specialist demand and labour market requirements

Innovation in education and new training technologies

Cultural identification and its preservation

Regional economic and social development

Mechanical engineering

Private Colleges

College of Management, Law and Languages

Dvaro 87, LT-76236 Šiauliai • <http://www.kolegija.com> • Director: Vanda Dudėnienė • Phone: +370 41 43 35 47 • Fax: +370 41 42 24 41 • Email: info@kolegija.com • Number of employees 57 • Number of researchers 25, among them the holders of PhD or higher research degree 5

- **The main fields of R&D activities:**

Trends of development of small and medium business in Šiauliai city

Demand for trained specialists in Šiauliai region

Prospects of the disabled and welfare recipients in Šiauliai region

Prospects of the disabled people and welfare recipients

- **The most successful directions of R&D activities:**

Employment possibilities of the post-graduates

Demand for the college study programmes

Quality of specialist training in the college

Klaipėda Business College

Tilžės 46A, LT-91112 Klaipėda • <http://www.klvk.lt> • Director: Assoc. Prof. Dr. Irena Sabaliauskaitė • Phone: +370 46 31 02 14 • Fax: +370 46 31 02 14 • Email: administracija@klvk.lt • Number of employees 57 • Number of researchers 8, among them the holders of PhD or higher research degree 6

- **The main fields of R&D activities:**

Business development tendencies and possibilities in Western Lithuania

Survey of demand for trained specialists in Western Lithuania

- **The most successful directions of R&D activities:**

Analysis of future specialists' training market and effectiveness of studies

Development of quality assurance system and its application at college

Klaipėda College of Social Sciences

Nemuno 2, LT-91199 Klaipėda • <http://www.klsmk.lt> • Director: Nijolė Skučienė • Phone: + 370 46 39 70 77 • Fax: +370 46 39 70 77 • Email: mokykla@balticum-tv.lt • Number of employees 81 • Number of researchers 11, among them the holders of PhD or higher research degree 6

- **The main fields of R&D activities:**

Increase of the competitiveness of business companies

Case studies and sociological investigation

Kolping College

Raguvo 7, LT-44275 Kaunas • <http://www.kolping.lt> • Director: Leticija Juraškienė • Phone: +370 37 22 00 30 • Fax: +370 37 22 00 30 • Email: info@kolping.lt • Number of employees 61 • Number of researchers 9, among them the holders of PhD or higher research degree 2

- **The main fields of R&D activities:**

The Perspectives of small and middle-size business development in the process of integration to the European Union

- **The most successful directions of R&D activities:**

The problems, opportunities and prospects of labour force integration into the labour market

The development of the studies' quality endurances system

Vilnius Cooperative College

Konstitucijos 11, LT-09308 Vilnius • <http://www.vkk.lt> • Director: Jonas Jakubauskas • Phone: +370 5 275 0183 • Fax: +370 5 275 0183 • Email: info@vkk.lt • Number of employees 126 • Number of researchers 20

- **The main fields of R&D activities:**

Quality of higher education

Consumer preferences, market research

Demand for specialists

Business management, microeconomics, information management

- **The most successful directions of R&D activities:**

Consumers' preferences and behaviour

Integration of Gipsy community into Lithuanian society

Vilnius Management College

J. Basanavičiaus 29A, LT-03109 Vilnius • <http://www.vvk.lt> • Director: Sigitas Kryžius • Phone: +370 5 213 0465 • Fax: +370 5 213 3606 • Email: vvk@vvk.lt • Number of employees 57 • Number of researchers 16, among them the holders of PhD or higher research degree 11

- **The main fields of R&D activities:**

Competitiveness of Lithuanian enterprises in the course of integration into the EU market

Consumers and their satisfaction with the product

Integration of Lithuanian economy into the world market

- **The most successful directions of R&D activities:**

The effect of Internet on consumers

Investigation and evaluation of consumer loyalty

West Lithuania Business College

Šilutės pl. 2/ P. Komunos 27, LT-91110 Klaipėda • Director: Assoc. Prof. Dr. Angelė Lileikienė • Phone: +370 46 31 10 99 • Fax: +370 46 31 43 20 • Email: vlvk@vlvk.lt • Number of employees 69 • Number of researchers 52, among them the holders of PhD or higher research degree 13

- **The main fields of R&D activities:**

Demand for managers in the region of Klaipėda

The succession of communication culture training in the college

Recreational objects of the Klaipėda city centre

Peculiarities of institution management in the context of restructuring of economy

Application of information technologies in the process of solving regional problems

Development of e. learning

- **The most successful directions of R&D activities:**

Demand for managers

Efficiency of investments in business institutions

Informational system of West Lithuania Business College

Vilnius Law and Business College

Laisvės pr. 58, LT-05120 • <http://www.vtvk.lt> • Director: Daiva Daugvilienė • Phone: +370 5 242 60 00 •

Fax: +370 5 246 03 00 • Email: info@vtvk.lt • Number of employees 82 • Number of researchers 25, among them the holders of PhD or higher research degree 16

- **The main fields of R&D activities:**

Development of business law in European Union

Integration of social exclusion groups into labor market

Humanitarian space of knowledge society and development of information technologies in creating the balanced society

- **The most successful directions of R&D activities:**

Creation and implementation of management system in the college

Fostering entrepreneurship of the Roman community by the means of distant teaching (2004-2005)

STATE RESEARCH INSTITUTES

Institute of Biochemistry

Mokslininkų 12, LT-08662 Vilnius • <http://www.bchi.lt> • Director: Prof. Habil. Dr. Valdas Laurinavičius • Phone: +370 5 272 91 44; • Fax: +370 5 272 91 96 • Email: biochemija@bchi.lt • Number of employees 152 • Number of researchers 84, among them the holders of PhD or higher research degree 49

- **The main fields of R&D activities:**

Gene structure and expression in microorganisms, regulation of cellular metabolic systems

Functioning and regulation of signalling systems in eukaryotic cells

Enzyme structure, functioning and application

Synthesis and investigation of modulators of the biological processes of amino acids, carbohydrates and heterocycles

- **The most successful directions of R&D activities:**

Gene structure and expression in microorganisms

Signalling systems in eukaryotic cells

Investigation and application of enzymes and new bioorganic compounds

Institute of Biotechnology

V. A. Graičiūno 8, LT-02241 Vilnius • <http://www.ibt.lt> • Director: Habil. Dr. Algimantas Pauliukonis • Phone: +370 5 260 2103 • Fax: +370 5 260 2116 • Email: office@ibt.lt • Number of employees 120 • Number of researchers 60, among them the holders of PhD or higher research degree 27

- **The main fields of R&D activities:**

Genetic and molecular studies of the restriction-modification phenomenon

Expression of genes in yeast

Research and development of recombinant biomedical proteins

- **The most successful directions of R&D activities:**

Protein-DNA interaction studies

Investigation of biological DNA modification

Virus protein synthesis in yeast

Immunogenicity studies of recombinant viral proteins

Development and testing comparative protein modelling methods

Discovery of novel compounds by structural thermodynamics

Institute of Botany

Žaliojių Ežerų 49, LT-08406 Vilnius • <http://www.botanika.lt> • Director: Dr. Valerijus Rašomavičius • Phone: +370 5 271 1618 • Fax: +370 5 272 9950 • Email: botanika@botanika.lt • Number of employees 163 • Number of researchers 124, among them the holders of PhD or higher research degree 77

- **The main fields of R&D activities:**

Botanical diversity of Lithuania: identification and generalisation on the level of communities

Genetic and physiological fundaments of plant productivity: research on the control possibilities of genetic and physiological processes determining growth and productivity

Diversity of Lithuanian mycobiota: identification and generalisation of the species level; regularities of formation of microorganism communities

- **The most successful directions of R&D activities:**

Investigation on the syntaxonomic diversity of Lithuanian vegetation

Control of physiology of plant growth and spatial orientation

Diversity of macromycetes and parasitic micromycetes

Institute of Chemistry

A. Goštauto 9, LT-01108 Vilnius • <http://www.chi.lt> • Director: Prof. Habil. Dr. Eimutis Juzeliūnas •

Phone: +370 5 264 8884 • Fax: +370 5 264 9774 • Email: chemins@ktl.mii.lt • Number of employees 169 • Number

of researchers 122, among them the holders of PhD or higher research degree 94

- **The main fields of R&D activities:**

Electrochemical, catalytic and sorption processes in solutions and their application

Materials science and metal corrosion

Environmental chemistry

Spectro-electrochemistry, synthesis and research of organic compounds

- **The most successful directions of R&D activities:**

Conductive polymers and their application

Formation and characterization of nanostructured alloys

Regeneration and decontamination of photographic solutions

Institute of Culture, Philosophy and Arts

Saltoniškių 58, LT-08105 Vilnius • <http://www.kfmi.lt> • Director: Dr. Vaclovas Bagdonavičius •

Phone/Fax: +370 5 275 18 98; 8 5 275 24 55 • Email: kfmi@kfmi.lt • Number of employees 111 • Number of

researchers 87, among them the holders of PhD or higher research degree 63

- **The main fields of R&D activities:**

Formation and development of Lithuanian culture

Comparative studies of culture and philosophy

Research in the history of Lithuanian philosophy

Studies of contemporary philosophy

Studies of the development of Lithuanian art

- **The most successful directions of R&D activities:**

Formation and development of Lithuanian culture (history of art, music, theatre, philosophy)

Comparative studies of culture, philosophy, and art
The influence of the global trends on the development of Lithuanian culture

Institute of Geology and Geography

T. Ševčenkos 13, LT-03223 Vilnius • <http://www.geo.lt> • Director: Dr. Algirdas Zuzevičius •
Phone: +370 5 210 4690 • Fax: +370 5 210 4695 • Email: info@geo.lt • Number of employees 121 • Number of
researchers 89, among them the holders of PhD or higher research degree 51

▪ The main fields of R&D activities:

Structure, composition and evolution of the Earth's Crust, and its surface and subsurface resources

Structure, state and dynamics of climate, hydrosphere and geological environment, analysis and prediction of processes for conservation, sustainable development and geotechnologies

Geosystems in of the Baltic Sea and the coastal zone and prediction of their future development

Analysis, cartographic modelling and prediction of landscape and human geographic processes for territorial planning

▪ The most successful directions of R&D activities:

Stages of the evolution of the East European Craton in Lithuanian part

Research of Late Cainozoic

Changes of geochemical field of Lithuanian surface sediments

Formation and dynamics of groundwater resources and chemistry

Impacts of climate and anthropogenic loads on water systems

Geological-geographical analysis of the Baltic Sea and coastal zone development

Structure of the Lithuanian landscape: state, changes and predictions

Impacts of localization factors on the social-economic processes in Lithuania

Institute of Lithuanian Literature and Folklore

Antakalnio 6, LT-10308 Vilnius • <http://www.llti.lt> • Director: Prof. Habil. Dr. Algis Kalėda •
Phone: +370 5 262 1943 • Fax: +370 5 261 6254 • Email: direk@llti.lt • Number of employees 108 • Number of
researchers 75, among them the holders of PhD or higher research degree 45

▪ The main fields of R&D activities:

History of the Lithuanian literature

The modern literary processes and literary theory

Lithuanian folklore (incl. folk songs, folk narratives and minor genres), its historical and theoretical problems, typological systems and processes of variation

▪ The most successful directions of R&D activities:

Investigations of literary heritage

Actual literary research

Folklore research

Institute of Mathematics and Informatics

Akademijos 4, LT-08663 Vilnius • <http://www.mii.lt> • Director: Prof. Habil. Dr. Gintautas Dzemyda •
Phone: +370 5 272 9207 • Fax: +370 5 210 9209 • Email: mathematica@kti.mii.lt • Number of employees 196 •
Number of researchers 129, among them the holders of PhD or higher research degree 78

▪ The main fields of R&D activities:

Investigation in the probability theory and mathematical statistics, finance and actuarial mathematics, differential equations and numerical methods for their solution, mathematical logic, complexity of algorithms and discrete mathematics

Investigation of recognition processes, data analysis, multi-modal optimisation problems, problems of multimedia technologies and interactive systems
Research of theoretical and methodical fundamentals of informatics, problems of information and communication technologies in education, computer networks and software engineering methods and application in the creation of new information technologies; cultural heritage in digital space

▪ The most successful directions of R&D activities:

Analysis of rough functions, applications to finance

Asymptotic analysis of statistics

Automated reasoning methods for knowledge and agent-based logics

Econometric models of time series and statistical inferences

Integration of statistical and neural approaches to design pattern recognition algorithms

Ontology-based engineering of component applications, information systems and business systems

Relationships between complexity of pattern recognition algorithms, amount of training data and algorithms' performance, and utilizations of this knowledge while solving real-world problems

▪ Other information:

International journal "Informatica" (included into the database of Institute of Scientific Information) is published by the Institute

Institute of Physics

Savanorių 231, LT-02300 Vilnius • <http://www.fi.lt> • Director: Dr. Vidmantas Remeikis • Phone: +370 5 266 1640 •
Fax: +370 5 260 2317 • Email: fi@fi.lt • Number of employees 163 • Number of researchers 118, among them
the holders of PhD or higher research degree 58

▪ The main fields of R&D activities:

Environmental physics and chemistry

Molecular biophysics and chemical physics

Development of nuclear spectroscopy methods

Nonlinear optics and laser development

▪ The most successful directions of R&D activities:

Dynamic and relaxation processes and origin of transition states in organic structures and model systems

Development of nuclear spectroscopy in materials science, radioecology and radiation protection

Dynamic processes of micro-admixtures in the atmosphere

Institute for Social Research

Saltoniškių 58, LT-08105 Vilnius • <http://www.sti.lt> • Director: Prof. Habil. Dr. Arvydas Virgilijus Matulionis • Phone: +370 5 275 8667 • Fax: +370 5 275 4896 • Email: sti@ktl.mii.lt • Number of employees 58 • Number of researchers 46, among them the holders of PhD or higher research degree 23

▪ The main fields of R&D activities:

Theory and methodology of socio-economic research

Social welfare

Social stratification

Demographic research

Studies of ethnicity

▪ The most successful directions of R&D activities:

Social welfare, income and poverty of the elderly

Social changes in post communist society: social stratification, political elite, ethnic structure of society, ethnic intolerance

Life long learning society

Demographic processes and structures: family studies, sociodemographic differences in mortality, migration, population ageing

Lithuanian Energy Institute

Breslaujos 3, LT-44403 Kaunas • <http://www.lei.lt> • Director: Prof. Habil. Dr. Eugenijus Ušpuras • Phone: +370 37 40 18 01 • Fax: +370 37 35 12 71 • Email: rastine@mail.lei.lt • Number of employees 307 • Number of researchers 141, among them the holders of PhD or higher research degree 86

▪ The main fields of R&D activities:

Development of energy economy planning methods, research of safety and reliability of the power plants, their impact on the environment, efficient energy consumption and the renewable energy sources

Thermal physics, fluid mechanics and metrology

Simulation of complex systems, development of the control methods and technologies

Durability of construction elements of energy systems, new technologies of multifunctional materials

Combustion and plasma processes in the fields of fuel saving, reduction of environmental pollution and thermal decontamination of materials

▪ The most successful directions of R&D activities:

The refinement of Lithuanian energy development principles and methods

Experimental and numerical heat transfer and turbulent transport research

Research of safety and reliability of the industrial sites and their impact on the environment in the context of European integration

Development and implementation of new technologies in nuclear energy field

Research in the field of hydrogen storage and fuel cells
Creation and development of combustion equipment and burners

Lithuanian Forest Research Institute

Liepų 1, LT-53101 Girionys, Kaunas distr. • <http://www.mi.lt> • Director: Prof. Habil. Dr. Remigijus Ozolinčius • Phone: +370 37 54 72 21 • Fax: +370 37 54 74 46 • Email: miskinst@mi.lt • Number of employees 90 • Number of researchers 48, among them the holders of PhD or higher research degree 21

- **The main fields of R&D activities:**

Biodiversity and sustainability of forest ecosystems
Reforestation, forest productivity, protection and usage
Forest genetic resources and breeding of forest trees
Forest policy, social and economical problems (in the context of new modes of ownership)

- **The most successful directions of R&D activities:**

Contemporary digressions of forest ecosystems: influencing factors and methods of indication
Variation in adaptive traits among Baltic Norway spruce provenances and optimization of breeding strategies
Influence of drainage and climatic factors on the hydrological regime of mineral soils and its influence on forest stands' productivity

Lithuanian Institute of Agriculture

Instituto 1, LT-58344, Akademija, Dotnuva, Kėdainiai distr. • <http://www.lzi.lt> • Director: Prof. Habil. Dr. Zenonas Dabkevičius • Phone: +370 347 37 057; +370 347 37 271 • Fax: +370 347 37 096 • Email: lzi@lzi.lt • Number of employees 414 • Number of researchers 120, among them the holders of PhD or higher research degree 89

- **The main fields of R&D activities:**

Physical, chemical and biological properties of soil
Plant nutrition processes and their regularities
Genetics, biotechnology, physiology and biochemistry of plants and plant breeding
Conservation and development of biodiversity of genetic resources
Peculiarities of yield formation of cultivated crops, agroecological and regional agricultural systems

- **The most successful directions of R&D activities:**

Variations in soil agrochemical and physical properties as affected by natural and anthropogenic factors, their intensity and causes
Biotechnological tests of cereals and perennial grasses
Research into epidemiology and biology of field crops diseases and pests, monitoring of species composition of harmful organisms, their abundance and harmfulness, investigation of fungal and mycotoxin contamination of agricultural produce

Lithuanian Institute of History

Kražių 5, LT-01108 Vilnius • <http://www.istorija.lt> • Director: Assoc. Prof. Habil. Dr. Alvydas Nikžentaitis • Phone: +370 5 261 4436 • Fax: +370 5 261 1433 • Email: istorija@istorija.lt 9 Number of employees 113 • Number of researchers 73, among them the holders of PhD or higher research degree 66

▪ The main fields of R&D activities:

Development of Lithuanian society and the state by the beginning of XXI century (history and historiography, historical auxiliary sciences, etc.)

Lithuanian archaeology, research of prehistory

Ethnology: cultural, social and territorial identity

Research and publication of the Lithuanian Metrics and other sources of Lithuanian history

Foundation, development and social importance of Lithuanian cities

▪ The most successful directions of R&D activities:

History, historiography and historical auxiliary sciences of the Lithuanian society and the state in the XI–XXI centuries

Lithuanian historic-cultural heritage

Processes of cultural dynamics in Lithuania

Lithuanian Institute of Horticulture

Kauno 30, LT-54333 Babtai, Kaunas distr. • <http://www.lsi.lt> • Director: Assoc. Prof. Dr. Česlovas Bobinas • Phone: +370 37 55 52 10 • Fax: +370 37 55 51 76 • Email: institutas@lsi.lt • Number of employees 107 • Number of researchers 47, among them the holders of PhD or higher research degree 40

▪ The main fields of R&D activities:

To develop theoretical basis for breeding of horticultural plants, create new varieties, accumulate and preserve genetic resources of horticultural plants in Lithuania

To investigate biological regularities of horticultural plants, model agrobiological systems for quality and productivity

To model and optimize processing and storage processes of fruits, berries and vegetables, analyze biologically active compounds of orchard and garden plants in fresh and processed production

▪ The most successful directions of R&D activities:

Development of plant breeding systems in vitro

Plant growing, development, morphogenesis, developing theory of flowering initiation

Fruit and vegetable growing technologies ensuring optimal and high quality yield

Lithuanian Language Institute

P. Vileišio 5, LT-10308 Vilnius • <http://www.lki.lt> • Director: Dr. Jolanta Zabarskaitė • Phone: +370 5 234 6472 • Fax: +370 5 234 7200 • Email: lki@lki.lt • Number of employees 105 • Number of researchers 76, among them the holders of PhD or higher research degree 39

- **The main fields of R&D activities:**

Lexicology, lexicography, and grammatical structure of the Lithuanian language

History and dialects of the Lithuanian language, sociolinguistic research

Operation of the Lithuanian language in society, terminology

Lithuanian onomastics

- **The most successful directions of R&D activities:**

Preparation of the Dictionary of the Lithuanian Language (in 20 volumes) and its computerised version

Analysis of the development of the norms and terminology of the Lithuanian language

The research into Lithuanian dialects and old Lithuanian writings, development of the written Lithuanian language

Semiconductor Physics Institute

A. Goštauto 11, LT-01108 Vilnius • <http://www.pfi.lt> • Director: Prof. Habil. Dr. Steponas Ašmontas •

Phone: +370 5 262 7124 • Fax: +370 5 262 7123 • Email: spiadm@pfi.lt • Number of employees 237 • Number of researchers 111, among them the holders of PhD or higher research degree 100

- **The main fields of R&D activities:**

Research of new materials and development of nanotechnologies

Investigation of electromagnetic radiation interaction with material, research of fluctuations and chaos

Development of solid-state sensors and energy saving technologies

Development of information technologies, state standards of measurement units and primary methods of measurements

- **The most successful directions of R&D activities:**

Spin-dependent transport in oxide films and heterostructures

Terahertz technologies and research of nanostructures

Fluctuation spectroscopy of A3B5 heterostructures

Control and synchronization of chaos, ultrahigh frequency chaotronics

Power electronics and saving of electrical energy

UNIVERSITY RESEARCH INSTITUTES

Food Institute of Kaunas University of Technology

Taikos 92, LT-51180 Kaunas • <http://www.lmai.lt> • Dr. Antanas Šarkinas • Phone: +370 37 31 29 93 • Fax: +370 37 31 29 93 • Email: lmai@lmai.lt • Number of employees 62 • Number of researchers 41, among them the holders of PhD or higher research degree 20

- **The main fields of R&D activities:**

Food safety management and safety assurance systems, hazard analysis in food chain, establishment and improvement of food control methods
Development of scientific and practical principles of good quality and healthy food technologies

- **The most successful directions of R&D activities:**

Investigation and creation of functional foods
New methods and systems for the food safety assurance
Impact of chemical, physical and biological factors on the structure formation of food systems

- **Other information:**

The Accredited Test Laboratory meets the requirements of LST EN ISO/IEC 17025

Institute of Agricultural Engineering of Lithuanian University of Agriculture

Instituto 20, Raudondvaris, LT-54132 Kaunas distr. • Director: Dr. Gvidas Rutkauskas • Phone: +370 37 44 96 43 • Fax: +370 37 54 93 66 • Email: institutas@mei.lt • Number of employees 70 • Number of researchers 25, among them the holders of Ph.D. or higher research degree 22

- **The main fields of R&D activities:**

Physical-mechanical and chemical influence of agricultural technologies upon environment, development of production processes, engineering means and implements

The conversion of renewable energy resources, plant production and its waste into non-alimentary materials

- **The most successful directions of R&D activities:**

The constructional and technological solutions for viable stockbreeding farms (optimal microclimate parameters, reducing of environmental pollution)

Conversion system of hybrid energy generated by the wind and the sun into heat; conversion of vegetative biomass into fuel and gas

Substantiation of sustainable technological implements applying non-arable agricultural system

Institute of Animal Science of Lithuanian Veterinary Academy

R. Žebenkos 12, Baisogala, Radviliškis distr. • <http://www.lgi.lt> • Director: Dr. Violeta Juškienė • Phone: +370 422 65 385 • Fax: +370 422 65 886 • Email: lgi@lgi.lt • Number of employees 110 • Number of researchers 30, among them the holders of PhD or higher research degree 27

- **The main fields of R&D activities:**

Animal genetics, biology of reproduction and animal genetic resources

Animal nutrition and production quality

Animal welfare and effects of animal production on the environment

- **The most successful directions of R&D activities:**

Investigation and conservation of genetic resources of indigenous farm animals

Effective use of feed resources for safe animal production

Influence of environmental factors on physiological state and productivity of cattle and pigs

Institute of Architecture and Construction of Kaunas University of Technology

Tunelio 60, LT-44405 Kaunas • Director: Dr. Egidijus Blaževičius • Phone: +370 37 45 13 51 • Fax: +370 37 45 13 55 • Email: asi@asi.lt • Number of employees 100 • Number of researchers 49, among them the holders of PhD or higher research degree 32

- **The main fields of R&D activities:**

History and heritage of Lithuanian architecture and urbanistics

Land management and territorial planning, and their substantiation

Methods of energy saving in buildings, the properties of building constructions and materials and the technology of the industrial raw material processing into building materials

- **The most successful directions of R&D activities:**

Heritage and values of Lithuanian architecture and urbanistics

Territorial planning

Heat and mass transfer in building constructions

Peculiarities of the long - term safety and durability of structures subjected to extreme loading (applying the recommendations of the Eurocode)

- **Other information:**

The Accredited Laboratory of Thermal Physics and the Accredited Laboratory of Composite and Finishing Materials meet the requirements of LST EN, ISO/IEC 17025.

Institute for Biomedical Research of Kaunas University of Medicine

Eivenių 4, LT-50009 Kaunas • <http://www.kmu.lt/index.php?cid=510> • Director: Prof. Habil. Dr. Irena Misevičienė • Phone: +370 37 30 29 51 • Fax: +370 37 30 29 59 • Email: bmti@vector.kmu.lt • Number of employees 161 • Number of researchers 106, among them the holders of PhD or higher research degree 82

The main fields of R&D activities:

Investigation of functional features of living tissues in order to reveal the role of autonomous nerve system in functioning of living tissues, to study mechanisms of cell energy transformation and consumption, controlling functions and mechanisms of ferment systems, to model the mechanisms of synaptic pulse transformations in brain

Investigation of the impact of lifestyle and environmental (physical, social and economical) factors on the health of children and adults aiming at the identification of health promotion priorities

▪ The most successful directions of R&D activities:

Functional features of living tissues

Impact of lifestyle and environmental factors on public health

Information technologies for health

Successful projects: EU 5FP project QLK4-2002-02395 PINCHE (Policy Interpretation Network on Children's Health and Environment); and EU 6FP integrated project FOOD-CT-2006-016253 PHIME (Public Health Impact of long-term, low-level Mixed element Exposure in susceptible population strata)

Institute of Cardiology of Kaunas University of Medicine

Sukilėlių 17, LT-50009 Kaunas • <http://www.info.kmu.lt/cardio> • Director: Prof. dr. Rimantas Benetis • Phone: +370 37 30 28 71 • Fax: +370 37 30 28 72 • Email: karddir@kmu.lt • Number of employees 175 • Number of researchers 107, among them the holders of PhD or higher research degree 94

▪ The main fields of R&D activities:

Physiological functioning of cardiovascular system and its regulation

Public health, prevalence of cardiovascular diseases and their risk factors, and related mortality in Lithuanian population

Development of the novel methods of prevention, diagnosis, treatment and rehabilitation from cardiovascular diseases and estimation of the effectiveness of these procedures

▪ The most successful directions of R&D activities:

Hormonal, metabolic, and cell volume-dependent regulation of ionic currents in the myocardium, programmed cellular death in morphogenesis of cardiovascular diseases and remodelling of the ischaemic myocardium

Investigation of the prevalence of ischaemic heart disease (IHD), cerebral stroke and their risk factors, development of mathematical models to predict both IHD and cerebral stroke in the identified population

Development, and implementation of original algorithms for computer-assisted analysis of 12-, 100-lead ECG, impedance cardiograms and seismocardiograms; development and implementation of telemedicine in cardiology

Institute of Ecology of Vilnius University

Akademijos 2, LT-08412 Vilnius • <http://www.ekoi.lt> • Director: Habil. Dr. Mečislovas Žalakevičius • Phone: +370 5 272 9257 • Fax: +370 5 272 93 52 • Email: ekoi@ekoi.lt • Number of employees 120 • Number of researchers 75, among them the holders of PhD or higher research degree 57

- **The main fields of R&D activities:**

Regularities and mechanisms of susceptibility, vulnerability, adaptation and microevolution of ecosystems and their constituent parts under the conditions of global change and anthropogenic impact

Regularities and mechanisms of functioning, adaptation and evolution of aquatic ecosystems under the conditions of global change and anthropogenic impact

Physiological and ethological mechanisms of animal population management and functions of parasitic organisms in ecosystems

- **The most successful directions of R&D activities:**

Functioning of terrestrial and aquatic ecosystems under the conditions of global climate change and anthropogenic impact

Susceptibility, vulnerability, adaptation and microevolution of ecosystems and their constituent parts

Physiological and ethological mechanisms of animal population management and functions of parasitic organisms in ecosystems

Institute of Endocrinology of Kaunas University of Medicine

Eivenių 2, LT-50009 Kaunas • <http://www.kmu.lt/index.php?cid=511> • Director: Prof. Habil. Dr. Antanas Norkus • Phone: +370 37 32 86 47; +370 37 79 86 07 • Fax: +370 37 73 38 19 • Email: cdkaunas@takas.lt • Number of employees 50 • Number of researchers 37, among them the holders of PhD or higher research degree 21

- **The main fields of R&D activities:**

Neuroendocrine and metabolic physiologic and pathologic functions and mechanisms of their regulation

Establishment and improvement of the epidemiological and mathematical models, treatment, and prevention of endocrine and metabolic disorders

- **The most successful directions of R&D activities:**

Investigation of hormone mechanisms of regulation and regulation of their disorders in endocrine

Diabetes mellitus register and investigation of influence of immune, genetic and environmental factors on aetiology, prevention and treatment of the disease

Investigation of people infertility of the endocrine origin

Institute of Experimental and Clinical Medicine of Vilnius University

Žygimantų 9, LT-01102 Vilnius • <http://www.ekmi.vu.lt> • Director: Prof. Habil. Dr. Algirdas Venalis • Phone: +370 5 262 8636 • Fax: +370 5 212 3073 • Email: algirdas.venalis@ekmi.vu.lt 9 Number of employees 174 • Number of researchers 39, among them the holders of PhD or higher research degree 30

- **The main fields of R&D activities:**

Epidemiology and pathogenesis mechanisms of rheumatic diseases, elaboration of their diagnostics and treatment methods

The studies of ageing and problems of diseases and some pathological conditions in the elderly

The medical studies of socially conditioned health problems

- **The most successful directions of R&D activities:**

Peculiarities of autoimmune injury in rheumatic diseases

Therapy and causality of reactive arthritis

Peculiarities of application of pathogenetic therapy in rheumatic diseases

Institute of Forensic Medicine of Mykolas Riomeris University

S. Žukausko 12, LT-08234 Vilnius • <http://www.tmi.lt> • Director: Assoc. Prof. Dr. Alvydas Rimantas Pauliukevičius • Phone: +370 5 278 9048 • Fax: +370 5 278 9047 • Email: office@tmi.lt • Number of employees 308 • Number of researchers 88, among them the holders of PhD or higher research degree 14

- **The main fields of R&D activities:**

Application of the modern biotechnologies in development of modern methods of medical-biological expertise

Estimation of cause and time of death by applying specific-complex investigations; search for new methods and modelling

- **The most successful directions of R&D activities:**

Forensic Genetics

Detection of narcotic and psychotropic drugs in biological samples and estimation of time of death after the use of psychoactive drugs

Medico-legal evaluation of violence against child and women

Suicide prevention

Institute of Immunology of Vilnius University

Molėtų 29, LT-08412 Vilnius • <http://www.imi.lt> • Director: Prof. Habil. Dr. Vytautas Tamošiūnas • Phone: +370 5 246 9231 9 Fax: +370 5 246 9210 • Email: imi@imi.lt • Number of employees 66 • Number of researchers 38, among them the holders of PhD or higher research degree 26

- **The main fields of R&D activities:**

Molecular and cellular interactions of the immune system

Investigation of factors determining activity of the immune system

- **The most successful directions of R&D activities:**

Cell and molecule interaction of the immune system: activation, signal transmission and regulation

Biomodels and their application in immunomodulator studies

Production of polyclonal and monoclonal antibody

Institute of Oncology of Vilnius University

Santariškių 1, LT-08660 Vilnius • <http://www.loc.lt> • Director: Prof. Habil. Dr. Konstantinas Povilas Valuckas •

Phone: +370 5 278 6700 • Fax: +370 5 272 0164 • Email: administracija@loc.lt • Number of employees 898 •

Number of researchers 52, among them the holders of PhD or higher research degree 40

- **The main fields of R&D activities:**

Development of new measures for cancer prevention based on epidemiological, molecular, genetic and clinical investigation

Development of the new technologies, methods of early cancer detection, and interventional treatment

Improvement of the quality of life of cancer patients

- **The most successful directions of R&D activities:**

Epidemiological studies and evolution of cancer risk factors

Correlation studies of infection by human papilloma virus and malignant cell biomarkers

Photosensitised tumor therapy

Cf252 brachitherapy in the treatment of different types of tumors

Institute of Physical Electronic of Kaunas University of Technology

Savanorių 271, LT-50131 Kaunas • <http://www.feit.t> • Director: Prof. Habil. Dr. Sigitas Tamulevičius •

Phone: +370 37 31 34 32 • Phone/Fax: +370 37 31 44 23 • Email: feit@feit.lt • Number of employees 34 • Number

of researchers 24, among them the holders of PhD or higher research degree 11

- **The main fields of R&D activities:**

Surface nanometric structures: thin films and surface engineering (physics and application), application of ion and plasma methods in formation of nanostructures and nanomaterials

Optical document security: microoptical elements, interference filters, development of new materials and structures

- **The most successful directions of R&D activities:**

GaAs surface and Schottky contact treatment and passivation

Diamond-like carbon films

Optical analysis of strains and displacements

Nanoimprint lithography

Photonic band gap structures

Institute of Psychophysiology and Rehabilitation of Kaunas University of Medicine

Vydūno 4, LT-00135 Palanga • <http://www.pri.kmu.lt> • Acting Director: Habil. Dr. Daiva Rastenytė • Phone: +370 460 30 012 • Fax: +370 460 30 014 • Email: direktor@ktl.mii.lt • Number of employees 136 • Number of researchers 75, among them the holders of PhD or higher research degree 22

- **The main fields of R&D activities:**

Cardiovascular psychophysiology

Sleep, sleep disorders and psychosomatic disturbances

Medical and social rehabilitation and prevention

Advanced information technologies in medicine

- **The most successful directions of R&D activities:**

Heart rate control and hemodynamics in normal condition and in coronary heart disease

Mechanisms of heart rhythm regulation during sleep, abnormalities of heart and pulmonary function and their impact on restoration of cardiovascular function during sleep

Peculiarities of secondary prevention and rehabilitation programmes for patients after acute myocardial infarction or heart surgery

Institute of Theoretical Physics and Astronomy of Vilnius University

A. Goštauto 12, LT-01108 Vilnius • <http://www.itpa.lt/> • Director: Habil. Dr. Gražina Tautvaišienė • Phone: +370 5 262 0947 • Fax: +370 5 212 5361 • Email: atom@itpa.lt • Number of employees 100 • Number of researchers 56, among them the holders of PhD or higher research degree 45

- **The main fields of R&D activities:**

Development of the effective methods of mathematical physics and their application in the theoretical investigation of many-particle systems, their non-linear dynamics and quantum fields

Investigation of atoms, subatomic particles, molecules, their structures and spectra; their application in nanophysics and astrophysics

Investigation of the structure and evolution of the Galaxy, the stars and the interstellar matter

- **The most successful directions of R&D activities:**

Theoretical description of atoms, nuclei and processes inside them

Populations of stars and their chemical evolution

Theory of processes and structures

Modelling of programmable artificial all evolution

- **Other information:**

International journal „Baltic Astronomy“ (included into the database of Institute of Scientific Information), annual popular science edition “Lietuvos dangus” (Lithuanian Sky) and a supplement of Lithuanian Journal of Physics „Fizikų žinios“ (News of Physicists) are published by the Institute. The lectures

and excursions for schoolchildren and the general public are organized at the Molėtai Astronomical Observatory and the Planetarium. The scientists of the institute take part at 3FP6, 4 COST and 7 other International projects

Institute of Thermal Insulation of Vilnius Gediminas Technical University

Linkmenų 28, LT-08217 Vilnius • <http://www.vgtu.lt/institutai/termoizoliacija> • Director: Prof. Habil. Dr. Antanas Laukaitis • Phone: +370 5 275 0001 • Fax: +370 5 275 2629 • Email: termo@aiva.lt • Number of employees 78 • Number of researches 28, among them the holders of PhD or higher research degree 2 21

- **The main fields of R&D activities:**

Physical characteristics of building materials, technologies and application, optimisation of structure and properties of materials

- **The most successful directions of R&D activities:**

Micro- and macrostructure, physical and mechanical characteristics, and technological peculiarities of refractory materials containing ultra dispersed and plastifying additives and meeting the requirements of thermal equipment exploitation

Macro- and microstructure of porous concrete with additives and composites, development of its technologies

Thermal and technical characteristics of effective thermo-insulating products

The noise control documentation and advice about conformity with European standards, sound absorption measurements of building materials and dwellings

Veterinary Institute of Lithuanian Veterinary Academy

Instituto 2, Gudienos vil., LT-56115 Kaišiadoriai distr. • <http://www.lva.lt/lvavi> • Director: Dr. Dainius Zienius • Phone: +370 346 60 689 • Fax: +370 346 60 697 • Email: lvi@org.ktu.lt • Number of employees 29 • Number of researchers 19, among them the holders of Ph.D. or higher research degree 9 15

- **The main fields of R&D activities:**

Epidemiology, etiology and pathogenesis of animal diseases, regularities of pathological process and defensive responses of the organism.

Development of the ways and means of diagnostics, prevention and treatment of diseases in farm animals and poultry

- **The most successful directions of R&D activities:**

Molecular biology and phylogenetic analysis of viruses, epidemiology of zoonotic viral diseases in animals; development of diagnostic, treatment and preventive means and control programs

Identification and selection of pathogenic bacteria for production of biological preparations and diagnostic kits; accumulation of isolated microorganisms and storage in the bank of microorganisms; development and improvement of technologies for disinfection in animal farms

Host/parasite/nutrition interactions, mechanism of influence of different

nutrients and gastrointestinal microflora on parasitical heminthes and morphology of intestines in monogastric animals; development of different forms of anthelmintics in agriculture and pet animals, anthelmintic resistance Diseases disturbances of reproductive performance in cows, mastitis, and etiology of metabolic diseases

Water Management Institute of Lithuanian University of Agriculture

Parko 6, Vilainiai, LT-58102 Kėdainiai • <http://www.waterland.lt> • Director: Dr. Antanas Sigitas Šileika • Phone: +370 347 68 100 • Fax: +370 347 68 105 • Email: sigitas@water.omnitel.net • Number of employees 69 • Number of researchers 32, among them the holders of Ph.D. or higher research degree 23

▪ The main fields of R&D activities:

Impact of the activity of agricultural sector on the environment and development of means for water protection
Functionalism of land drainage and development of scientific base for their modernization and management

▪ The most successful directions of R&D activities:

Non-point agricultural pollution and its influence on surface water quality
Means for neutralization of concentrated pollution
Functionality of drainage and their management

STATE RESEARCH ESTABLISHMENTS

Institute of Economics

A. Goštauto 12, LT-01108 Vilnius • Director: Prof. Habil. Dr. Eduardas Vilkas • Phone: +370 5 262 3502 • Fax: +370 5 212 7506 • Email: vilkas@ktl.mii.lt, ei@ktl.mii.lt • Number of employees 14 • Number of researchers 9, among them the holders of PhD or higher research degree 7

- **The main fields of R&D activities:**

Economics

- **The most successful directions of R&D activities:**

Economic theory and mathematical modelling

Economic and social development problems of Lithuanian economy

Economic thought in Lithuania in the XVI–XX centuries

Institute of Hygiene

Didžioji 22, LT-01128 Vilnius • <http://www.hi.lt> • Director: Prof. Habil. Dr. Julius Kalibatasa • Phone: +370 5 262 4583 • Fax: +370 5 262 4683 • Email: institutas@hi.lt • Number of employees 79 • Number of researchers 45, among them the holders of PhD or higher research degree 24

- **The main fields of R&D activities:**

Environmental medicine, occupational health, children health, hospital (nosocomial) infections, use of antibacterials, and other problems of public health
Occupational epidemiology research, assessment of physical, chemical and psychosocial risks, good laboratory practice in occupational health, occupational and work related diseases

Psychosocial factors in the work of primary health care specialists

Analysis of environmental health (establishment of national laboratories: biochemical analysis and toxicology), regulation and standardisation of environmental pollution

- **The most successful directions of R&D activities:**

Stress at work

Nosocomial infections and use of antibacterials in Lithuania

Public health status and environmental risk factors

Institute of Labour and Social Research

Rinktinės 48, LT-09318 Vilnius • <http://www.dsti.lt> • Director: Prof. Assoc. Dr. Boguslavas Gruževskis • Phone: +370 5 275 2434 • Fax: +370 5 275 2113 • Email: institutas@dsti.lt • Number of employees 19 • Number of researchers 13, among them the holders of PhD or higher research degree 4

- **The main fields of R&D activities:**

Researcher (theoretical, methodological and applied one) on the issues at formation and implementation of labour and social policy

- **The most successful directions of R&D activities:**

The living standards and vocational training
The employment and unemployment
Labour market policy
Industrial relations
Social support and social services

Law Institute

Gedimino 39/Ankštoji 1, LT-01109 Vilnius • <http://www.teise.org> • <http://www.teisinst.lt> •

Director: Dr. Algimantas Čepas • Phone: +370 5 249 7665 • Fax: +370 5 249 7591 • Email: info@teise.org •

Number of employees 35 • Number of researchers 16, among them the holders of PhD or higher research degree 9

- **The main fields of R&D activities:**

Public law
Criminology

- **The most successful directions of R&D activities:**

Crime Control and Prevention
Human Rights
Constitutional Law

Lithuanian Institute of Agrarian Economics

V. Kudirkos 18, LT-03105 Vilnius • <http://www.laei.lt> • Director: Dr. Rasa Melnikienė • Phone: +370 5 261 4525 •

Fax: +370 5 261 4524 • Email: laei@laei.lt • Number of employees 60 • among them the holders of PhD or

higher research degree 8

- **The main fields of R&D activities:**

Rural and regional development
Competitiveness of the agricultural and food sector

- **The most successful directions of R&D activities:**

Analysis of EU integration processes and their impact on the Lithuanian agricultural and food sector

Lithuanian Textile Institute

Demokratų 53, LT-48485 Kaunas • <http://www.lti.lt> • Director: Dr. Aušra Abraitienė • Phone: +370 37 30 86 66 •

Fax: +370 37 30 86 68 9 Email: lti@lti.lt • Number of employees 120 • Number of researchers 41, among them

the holders of PhD or higher research degree 11

- **The main fields of R&D activities:**

Development of technologies of high tech products (ballistic protective equipment, multilayer "breathable" materials, materials resistant to flame, heat, chemical, nuclear, biological influence, etc.) and investigation of their properties

Development of technical textiles for special coveralls (for various industrial, military and medical purposes)

Environmental optimisation of textile manufacturing processes

- **The most successful directions of R&D activities:**

Evaluation of ecological effect of the textile finishing technologies and the manufactured products

Modification of textile materials and investigation of their properties

Development of technologies for the production of multifunctional textile materials and preparation of production recommendations for Lithuanian enterprises

- **Other information:**

The flameproof clothing was granted an award "Product of the year" in 2000"

Footwear produced by JSC "Lithuanica" with the 4-layer "breathable" lining was granted an award "Product of the year" in 2001

Nuclear, biological and chemical protective clothing was granted an award "Product of the year" in 2002

A set of clothing produced of the "breathable" material with membrane, protecting from rain and wind was granted an award "Product of the year" in 2003

Armour vests were granted an award "Product of the year" in 2004 (Winner of the Silver medal)

The Accredited Textiles Testing Laboratory at the Institute meets the requirements of LST EN ISO/ IEC 170025. The laboratory also is acting as a conformity assessment institution for Personal Protective Equipment (PPE) – protecting clothing and is notified body, identification No. 1401

The quality management system of institute has been approved to EN ISO 9001:2000 standard

LTI is the member of TEXTRANET

State Institute of Information Technology

Kalvarijų 125, LT-08221 Vilnius • <http://www.viti.lt> • Director: Assoc. Prof. Dr. Saulius Sidaras •

Phone: +370 5 276 7227 • Fax: +370 5 272 4274 • Email: saulsid@viti.lt • Number of employees 39 • Number of researchers 32, among them the holders of PhD or higher research degree 5

- **The main fields of R&D activities:**

Development of information and telecommunication technologies and systems

- **The most successful directions of R&D activities:**

Development of technologies of telecommunication, process control and safety systems particularly oriented to high reliability, safety and security, including fiscal, nuclear and IT&T safety

Analysis of computers and network architecture to design high level Man-Machine interface according to Design for All principle, and also to provide internet access for disabled persons according to their needs

The institute works in the areas of office and technological processes automation, including Web-based IS, DB, automation of water supply systems, boiler – houses, oil, electricity distribution and production objects, develops and implements SCADA systems for management of technological processes, carries out inspections of cash-registers, automatic machines and computer cash systems

OTHER R&D ESTABLISHMENTS

Centre of Marine Research

Taikos 26, LT-91149 Klaipėda • <http://www.jtc.lt> • Director: Dr. Algirdas Stankevičius • Phone: +370 46 41 04 50 • Fax: +370 46 41 04 60 • Email: jtc@jtc.am.lt

The Center performs and coordinates the monitoring of the Baltic Sea, the Curonian Lagoon and the Nemunas Delta. It investigates extreme situations (fish decay, oil spills and water "blooming"), carries out hydro - meteorological observations of littoral as well as coastal dynamics of the Baltic Sea and the Curonian Lagoon, performs special research of an impact of harbour dredging, hydro technical construction, soil dumping in the sea. The Center participates in the international programme on the monitoring of the Baltic Sea (HELCOM) and in other international projects. The Center is responsible for implementation of Water Framework Directive requirements in the marine waters of Lithuania. The data obtained by the Center within the long - term monitoring had been stored in the Marine Environmental Data Fund. The Center analyses the information on natural processes taking place in the Baltic Sea and the Curonian Lagoon as well as on the impact of an anthropogenic activity of the state of water and living organisms. The Center of Marine Research has recently taken over responsibility for the monitoring of surface fresh water bodies, wastewater and air quality in the western part of Lithuania as well. The Center prepares reports, submits information on the overall state of marine environment to the governmental institutions, to the general public.

Environmental Protection Agency

A. Juozapavičiaus 9, LT-09311 Vilnius • <http://aaa.am.lt> • Director: Liutauras Stoškus • Phone: +370 5 266 2808 • Fax: +370 5 266 2800 • Email: aaa@gamta.lt

The Agency organizes, coordinates and together with the institutions of research and higher education carries out the evaluation of nature recourses, emission impact on environment, the overall state of the environment. The Agency also examines the effectiveness of newly introduced technologies, measures and methods of environmental protection.

The Agency accumulates and provides an integrated analysis on the quality of environment components, prepares reports, statistical information, submits information on the overall state of environment to the general public, expedient ecological information to the governmental institutions and organizations as well as to other legal and private persons. The Agency carries out the coordination of governmental research projects and programmes in the fields of environment quality, biodiversity, environmental protection and management.

Institute of Lithuanian Scientific Society

A. Goštauto 11, LT-01108 Vilnius • <http://msi.lms.lt> • Director: Prof. Habil. Dr. Stepas Janušonis • Phone: +370 5 212 1334; +370 5 231 3762 • Fax: +370 5 231 3762 • Email: msi@self-formation.lt

▪ The main fields of R&D activities:

Research of self-formation of artificial systems, application to photovoltaic and fuel cells technologies

Social and economical aspects of renewable energy

Development of information and Internet technologies based on collective knowledge management methods (semantic web, ontology)

Digitalisation of Lithuanian cultural heritage

▪ The most successful directions of R&D activities:

Self-formation of artificial systems

Photovoltaics

Application of information systems

▪ Other information:

Institute is an associate member of European Science and Technology Observatory (ESTO)

Lithuanian Geological Survey under the Ministry of Environment

S. Konarskio 35, LT-03123 Vilnius • <http://www.lgt.lt> • Director: Juozas Mockevičius • Phone: +370 5 233 2889 • Fax: +370 5 233 6156 • Email: lgt@lgt.lt

The Survey, according to the programmes approved by the Government, organizes and carries out geological investigation of the subsurface of Lithuania (onshore and offshore) providing the necessary information on structure, geological processes and resources of the subsurface as well as on hazardous natural phenomena. The Survey carries out geological investigation on the basis of international agreements and projects, requests of municipalities and other institutions as well. The Survey maintains National geological information system and regulates its usage.

Lithuanian Hydrometeorological Service

Rudnios 6, LT-09300 Vilnius • <http://www.meteo.lt> • Director: Vida Augulienė • Phone: +370 5 275 1194 • Fax: +370 5 272 8874 • Email: augulienė@meteo.lt

Climatology and Methodology Division

Head: Dr. Audronė Galvonaitytė • Phone: +370 5 271 5071 • Fax: +370 5 272 8874 • Email: audrone@meteo.lt, mokslas@meteo.lt, clicom@meteo.lt

The mission of Lithuanian Hydrometeorological Service is to provide the Lithuanian society and state institutions as well as meteorological and aeronautical centres worldwide with reliable hydrometeorological information and forecasts.

The Service explores the Lithuanian climate and weather conditions, maintains the climatological database, investigates the origination of hydrometeorological phenomena, carries out research, participates in programmes of the World Meteorological Organization (WWW, CLIPS, CLIVAR, GCOS), co-operates with the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT) and the European Centre for Medium-Range Weather Forecasts (ECMWF), participates in the development and implementation of HIRLAM numerical weather prediction model, compiles climatologic reference books, disseminates climatological and meteorological information to the general public, participates in scientific conferences and workshops

Public institution "Statistical Surveys"

Gedimino 29, LT-01104 Vilnius • Director: Benonas Mikšas • Phone: +370 5 236 4717 • Fax: +370 5 236 4755 • Email: stat.tyrimai@stat.gov.lt

▪ The institution:

Organizes and conducts continuous surveys (also in cooperation with foreign institutions) and on their basis prepares and produces publications
Presents conclusions and recommendations for the usage of the aggregated results obtained by the institution in practical and research activities
According to the list provided by Statistics Lithuania disseminates the documentation and publications to the public and research institutions and other users

State enterprise "Transport and Road Research Institute"

I. Kanto 25, P.O. Box 2082, LT-44009 Kaunas • <http://www.tkti.lt> • Director: Giedrius Šiaudinis • Phone: +370 37 22 66 38 • Fax: +370 37 20 56 19 • Email: tkti@tkti.lt • Number of employees 107 • Number of researches 47, among them the holders of PhD or higher research degree 8

▪ The main fields of R&D activities:

Investigation of road asphalt pavement degradation, determination of reasons of degradation and development of methods of pavement strengthening
Air quality monitoring within the impact zone of roads under construction and after their opening to traffic
Environmental impact assessment of the planned transport infrastructure activities
Determination of the actual load-carrying capacity of transport structures (bridges, viaducts and scaffold bridges on roads, streets and railways), included into the systematic samples, monitoring, static and dynamic testing of the structures
Investigation of structural pavement parameters, traffic safety and transport flows

New products and/or new technologies developed/introduced during the last five years:

Vehicle-generated emissions and noise estimation software

Vehicle-generated pollution dispersion estimation software

Seasonal coefficients were established, allowing forecast structural pavement strength in a critical period of the year

Methods for determination of the average annual daily traffic

INSTITUTION NAME INDEX

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