Annual Report 2024

STU

SLOVAK UNIVERSITY OF
TECHNOLOGY IN BRATISLAVA

STU

Rector's Address

In 2024, the Slovak University of Technology in Bratislava commemorated 87th anniversary of its establishment. Its tradition, however, dates back to the Mining Academy founded in 1762 in Banská Štiavnica, which was the first technical school of university-type in the territory of present-day Slovakia.

In 2024, the Slovak Accreditation Agency for Higher Education completed the assessment procedure and decided that the STU internal system of quality assurance of higher education and its implementation is in compliance with the Standards. The Agency granted STU the right to independently design, implement and modify study programmes in the Bachelor, Master, and Doctoral degrees of higher education in 17 study fields.

The total number of students at STU in the 2023/2024 academic year decreased by 2 % compared to the previous one, and increased again at the beginning of the 2024/2025 academic year (from 10,809 to 11,041). The number of full-time foreign students increased by 11 % year-on-year. The share of foreign students at STU in the 2023/2024 academic year reached 18.6 % of the total number of the University students. Compared to the academic year 2022/2023, we have recorded an increase in the numbers of inbound students (by 15 %) and outbound students (by 65 %) within the international academic mobility.

Since 2023, STU together with its partners have been developing cooperation within the EULiST consortium of European universities.

STU has long been among the leading research universities in Slovakia. It has been ranked in three major world rankings: QS World University Rankings®, THE (Times Higher Education) World University Rankings and U.S. News Best Global Universities. The best ranking position, 1001 – 1200 out of 1503 universities evaluated, has been achieved in the QS World University Rankings®.

According to the compilers of the previous year Study Abroad Aide's University Rankings, STU ranked among the top 15 % of universities in terms of attractiveness to foreign students. STU is among the absolute top universities in Slovakia in terms of graduate employability.

Since 2022, it has been holder of the "HR Excellence in Research" label. As for scientific and research activities, STU belongs to the best universities in Slovakia in obtaining grants. Of the total amount of funds, STU received 17.6 % of domestic and 16 % of foreign research grants funds. Equally, STU belongs to the most successful institutions in Slovakia in international scientific and research programs.

Oliver Moravčík
Rector

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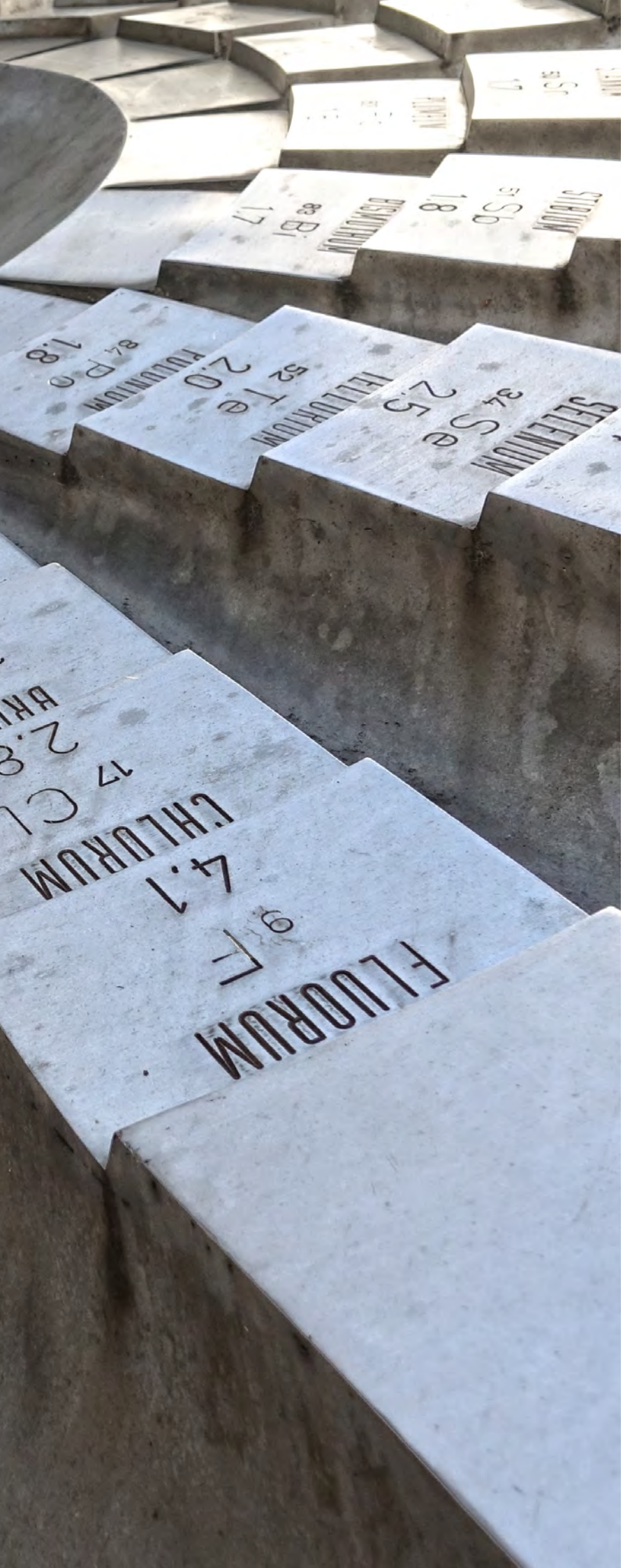


KEY FIGURES 2024

179 305
graduates

11 041
students

1 319
teaching and research staff

643
Erasmus+ agreements

601
research projects

337
contractual research projects

323
study programmes

190
international projects

101
framework agreements with foreign universities

7+1
faculties (schools) + University Institute


SLOVENSKA VYSOKA ŠKOLA TECHNICKÁ
19 38

The Slovak University of Technology in Bratislava offers university education in engineering disciplines. The STU education system is based on scientific research, as well as on artistic, engineering and other creative activities. The STU faculties, departments, institutes and experts cooperate directly with industrial companies and social organisations, actively taking part in international cooperation.

Vision

The Slovak University of Technology in Bratislava strives to be an internationally recognized, research-oriented technical university. It seeks to provide a high quality, internationally comparable education to a broad spectrum of students in promising fields, based on independent and critical thinking, entrepreneurship and creativity, while regarding practical application and success in life, and taking into account the human aspects of education and technological progress. The University aims at contributing to the economic and social development of the Region.

Mission

As a research-oriented technical university, the STU's mission is to apply and disseminate new knowledge achieved in scientific research, engineering and other creative work, as well as educate and enlighten the young generation in the spirit of the principles of humanism and philanthropy. STU thus develops harmony, knowledge, wisdom, altruism and creativity in a person, and contributes to the development of education, science, culture and health for the good of society as a whole, thereby contributing also to the development of a knowledge-based society.

Rector: Oliver Moravčík, Dr. h. c., Prof. h. c., Prof. Dr. Ing.
Chair of the Academic Senate: František Janíček, Prof. Ing., PhD. (until 1 Sep. 2024); Janka Zajacová, JUDr., PhD. (since 4 Dec. 2025)
Chair of the Administration Board: Vladimír Slezák, Ing.

Photo: Pavel Kudrvani

Faculties & Institutes

- **FACULTY OF CIVIL ENGINEERING**
  www.svf.stuba.sk
  Building constructions, services and technologies; geodesy and cartography; land constructions; transportation constructions; mathematical-computational modelling; water constructions and water systems

- **FACULTY OF MECHANICAL ENGINEERING**
  www.sjf.stuba.sk
  Applied mechanics & mechatronics; automation of machines; automobiles & mobile machines; chemical and food machinery; metrology & production quality systems; thermal, hydraulic and production machinery

- **FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY**
  www.fei.stuba.sk
  Applied informatics & communication systems; cybernetics, robotics & smart technologies; electronics; electrical engineering; nuclear & physical engineering, power engineering

- **FACULTY OF CHEMICAL AND FOOD TECHNOLOGY**
  www.fchpt.stuba.sk
  Biotechnologies; chemical engineering; environmental engineering; food chemistry & technologies, fuels & polymers; inorganic & organic technologies; inorganic, organic, analytical & physical chemistry

- **FACULTY OF ARCHITECTURE AND DESIGN**
  www.fad.stuba.sk
  Architecture & urban development; product design

- **FACULTY OF MATERIALS SCIENCE AND TECHNOLOGY**
  www.mtf.stuba.sk
  Automation & informatics in industry; industrial management; materials engineering; processing and application of non-metals; production machinery and systems; production technologies

- **FACULTY OF INFORMATICS AND INFORMATION TECHNOLOGIES**
  www.fiit.stuba.sk
  Computer engineering; information security; information systems; security; internet technologies

- **INSTITUTE OF MANAGEMENT**
  www.stuba.sk
  Entrepreneurship; investment planning; spatial planning

Highlights of 2024

OPENING OF THE STU CENTRE

- with the aim of creating a stimulating environment for the University students, contributing to the development of their creativity, and increasing the interest of young talents in studying at STU.

ESTABLISHMENT OF THE CEPSIT UNIVERSITY WORKPLACE

(Centre for European Projects, Cooperation with Practice, Innovation and Technology Transfer)

- to ensure a unified, coordinated and legislatively correct management process and administration of foreign projects, cooperation with practice, technology transfer and support for the establishment of start-ups for STU students and graduates.

SUMMER UNIVERSITY GAMES 2024

- an academic sport event with the participation of more than 700 student athletes of Slovak universities and colleges.

SUCCESS IN EMPLOYABILITY OF GRADUATES

- STU leads the ranking of Slovak universities in the employability of graduates for the year 2024. Graduates of Mechanical Engineering, Construction and IT are the most demanded (Source: Profesia.sk). Compared to other public universities, the University has long maintained the lowest percentage of unemployed graduates (2.9 %).

STU IN THE WORLD RANKINGS

The Slovak University of Technology in Bratislava has ranked among the leading research universities in Slovakia for many years, which also confirms its position in the world rankings of universities.

STU appeared in three important world rankings.

In the QS World University Rankings®, STU achieved the position between 1000 – 1200 out of 1503 evaluated universities; besides STU, also five other Slovak universities appeared in the ranking.

In the World University Rankings, STU was ranked 1501 + of 2092 evaluated universities; besides STU, also other six Slovak universities ranked there, too.

The U.S. News Best Global Universities has been comparing American universities with the world ones for 30 years. Four universities from Slovakia, including STU, appeared in the ranking.

EngiRank ranks STU as the best university with a technical focus in Slovakia for the second year in a row.

Within the Study Abroad Aide' University rankings, STU was ranked among the top 15 % of universities in attractiveness to international students.

SIGNIFICANT RESULTS IN THE FIELD OF SCIENCE, TECHNOLOGY AND ART

Scientist of the Year,
category: Technologist of the Year
Juraj Beniak, Prof. Ing., PhD.
Award for significant innovations in the field of additive manufacturing, with exceptional contribution to research and development; for contribution to developing innovative composite materials for additive manufacturing and new innovative design solutions for equipment in the field

L'Oréal – UNESCO Program For Women in Science in Slovakia,
category of engineering science and technology
Jana Šimeg Veterníková, Ing., PhD.
Award for contribution to the field of nuclear power

Award for Science and Technology in the Year 2024,
category: Personality in science and technology
Ľubomír Švorc, Prof. Ing., DrSc.
Award for extensive internationally recognized development of sensory materials and green chemistry methods for trace analytes in food, pharmaceutical and environmental samples.

ESET Science Award 2024,
category: Outstanding Personality of Higher Education, Finalist
Peter Peciar, doc. Ing. PhD.

BIG SEE Architecture Award 2004, 1st place
Michal Bogár, doc. Ing. arch. PhD.
Awarded for his work of Liturgical space for the mass of Pope Francis during his visit to Slovakia, Šaštín

Heyrovský Ilkovič Nerst lecture 2024 (GDCCH – German Chemical Industry Association)
Ján Híveš, Prof. Ing. PhD.

Gold Medal of International Engineering Fair in Brno 2024
Team leader Ľubomír Šooš, Dr. h.c. Prof. Ing., PhD.
Trailpanel project

Student Entrepreneur Award 2024, absolute winner
Roman Osadský
Rewaldry project

Education

STU holds the **ECTS Label** (as one of three universities in the Slovak Republic) and the **DS Label** (as one of five universities in the Slovak Republic). It provides attractive and high-quality higher education, which is evidenced by the high employment rate of its graduates, reaching almost 100 %, while their starting salaries being the highest in the economy of Slovakia. A long-term positive trend in the STU education is its cooperation with practice, as evidenced by the numerous awarded STU students.

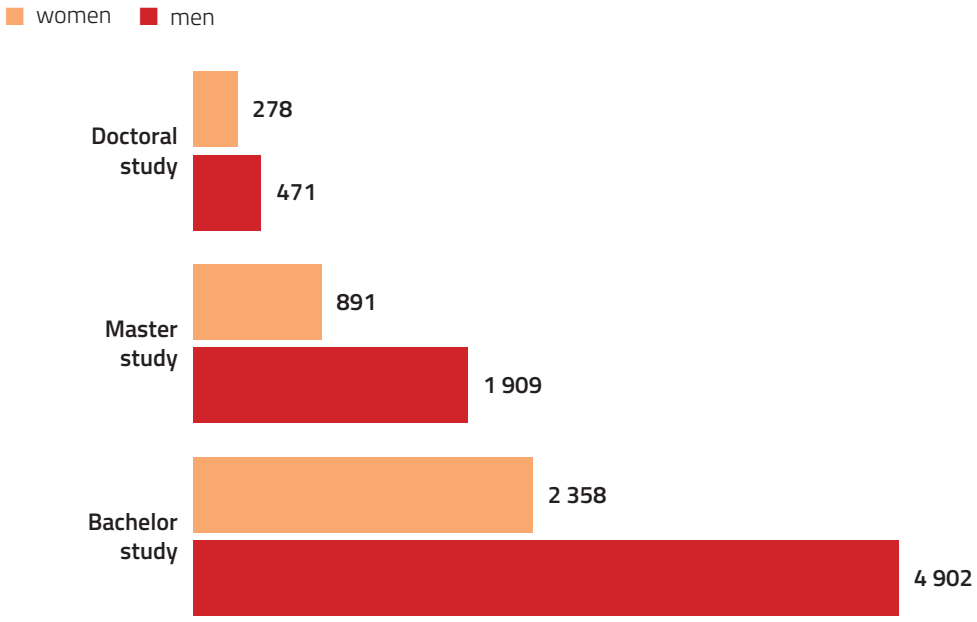
In the academic year 2023/2024, education and training were carried out within a total of 151 full-time study programmes (51 Bachelor degree, 51 Master degree and 49 Doctoral degree), either in the Slovak language or in combination of Slovak and English languages, also possibly in combination of the Slovak and English and Czech.

Only 40 Doctoral study programmes were conducted in external form of study.

The number of study programmes delivered in English was 29; out of those, there were 5 full-time Bachelor degree, 7 full-time Master degree, as well as 17 full-time and external Doctoral degree study programmes. STU also offers a professionally oriented Bachelor degree study programme of "Operating Technician of Transport and Production Technology" at the STU Faculty of Mechanical Engineering in cooperation with VOLKSWAGEN SLOVAKIA, a. s.; ZF Slovakia, a.s.; ZKW Slovakia, s.r.o.; Brose Prievidza, s.r.o.; Stellantis Slovakia, Schaeffler Skalica, s.r.o, Yanfeng International Automotive Technology Slovakia, s.r.o.

In the academic year 2023/2024, a total number of the STU students was 10,809 students, of which there were 7,260 Bachelor students, 2,800 Master students and 749 Doctoral students (567 full-time and 182 part-time).

STU students in the academic year 2023/2024



Source: STU

On a national scale, there are only 19 % of students from the Bratislava region, while 16 % are from the Trnava region (the residence of STU MTF).

Compared to the academic year 2022/2023, there was an 11 % increase of foreign students; in the academic year 2023/2024, there were 18.6 % of foreign students out of the total number of STU students; most of them came from Ukraine (1325, i.e. 66 %) out of a total of 2,013 foreign students).

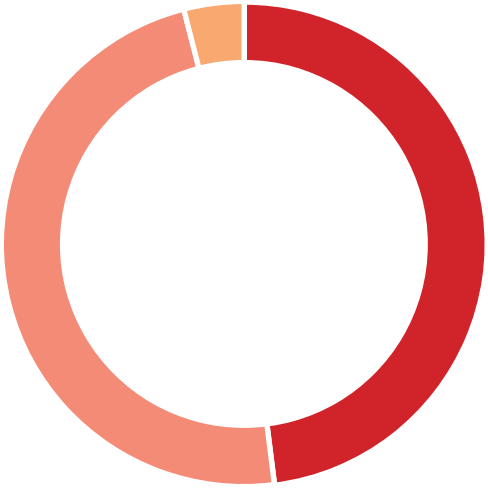
In the academic year 2023/2024, the STU students received a total of 145 prestigious awards on the national level outside the University, and 60 awards on the international level.

In the academic year 2023/2024, as many as 2,599 graduates completed their studies at STU, of which 1,209 were Bachelor graduates, 1,253 Master graduates, and 137 PhD. graduates (110 in full-time and 27 in external study forms).

STU graduates in the academic year 2023/2024

- Bachelor study (1 209)
- Master study (1 253)
- Doctoral study (137)

Source: STU

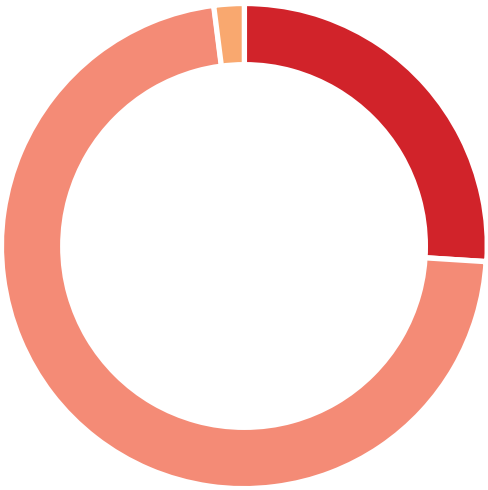


Since its establishment until the end of 2024, STU provided higher education to 179,305 graduates, of which there were 47,520 Bachelor degree graduates, 127,398 Master degree graduates and 4,387 Doctoral degree graduates.

The total number of graduates since the University establishment until the end of 2024

- Bachelor study (47 520)
- Master study (127 398)
- Doctoral study (4 387)

Source: STU

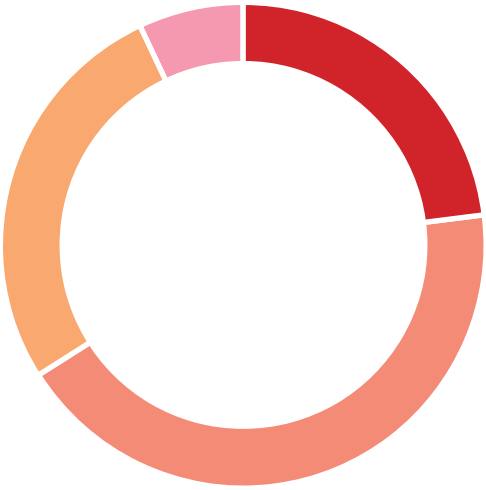


INTERNATIONAL ACADEMIC MOBILITY

In the academic year 2023/2024, STU registered a total number of 766 students participating in academic mobility, including 436 outbound STU students and 324 inbound foreign students. Compared to the academic year 2022/2023, this represents an increase of 218 students.

STU accomplished the highest number of international mobility through the Erasmus+ program. Erasmus+ academic mobility was implemented in 30 countries participating in the program.

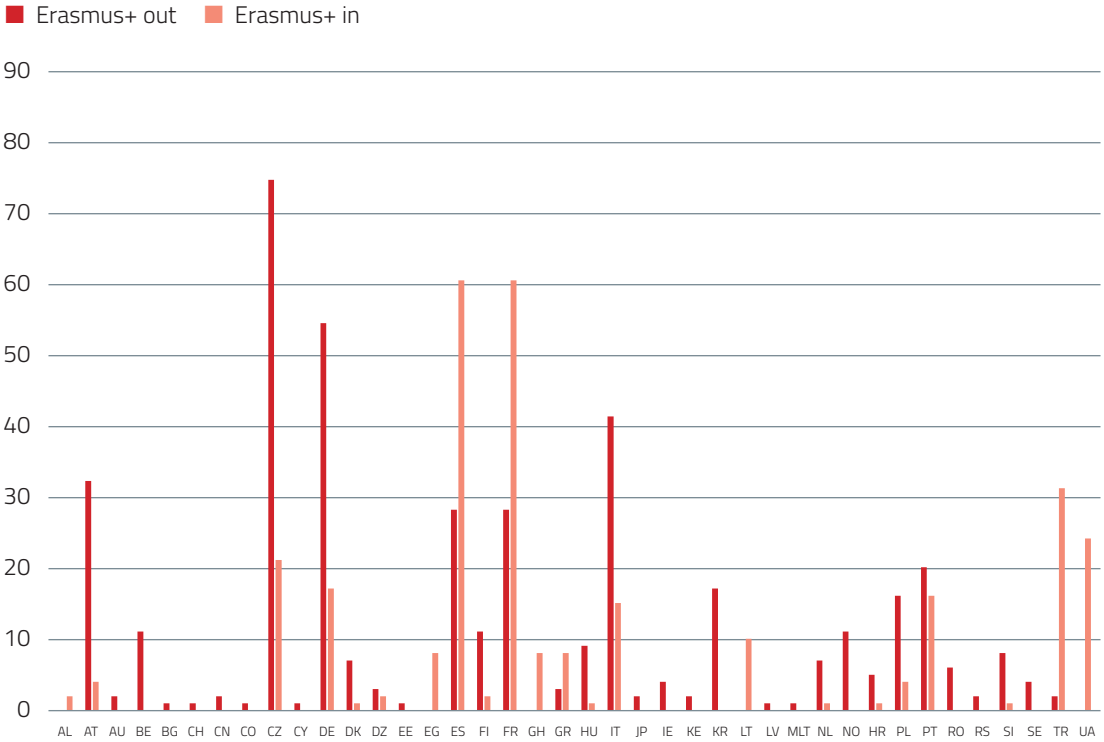
Percentage of the outbound STU students/graduates within the Erasmus+ program, according to study degree in the academic year 2023/2024



- Bachelor study (22%)
- Master study (44%)
- Doctoral study (26%)
- Graduates (8%)

Source: STU

Overview of the Erasmus+ outbound and inbound students in the academic year 2023/2024 according to country



Source: STU

FURTHER EDUCATION

In the academic year 2023/2024, a total of 4,701 STU students participated in 278 courses of further education programmes (32 accredited and 246 non-accredited). The educational programmes took place in both, distant and face-to-face forms.

In the academic year 2023/2024, a total of 845 participants joined the educational programmes provided by the STU **University of the Third Age (UTV)**. Compared to the academic year 2023/2024, interest in this form of education increased by 60 participants. The UTV offer was enhanced by 2 new educational programmes.

The **Language Centre** of the Institute of Lifelong Education provides educational language programmes and vocational training for foreign students interested in studying in the Slovak language. In the academic year 2023/2024, 36 foreign students completed the Slovak language course. Besides the participants of the Language Centre's educational programs, 193 interested students completed the Slovak language proficiency test.

EULiST
EUROPEAN UNIVERSITY

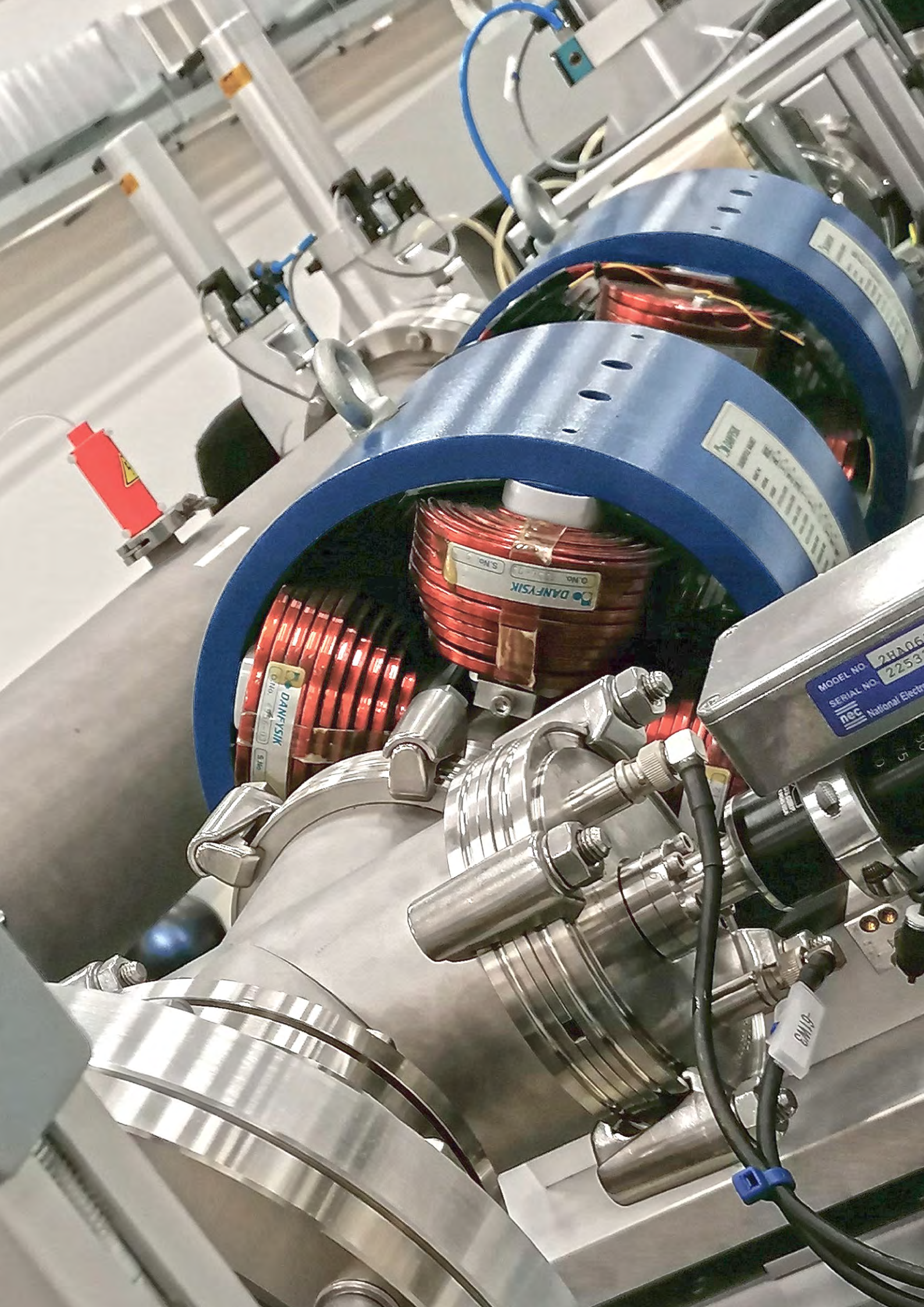
European Universities Linking Society and Technology

The Alliance actively supports the integration and interconnection of science, technology, mathematics and social sciences. Together with other members of the Alliance, STU closely cooperates at the strategic, educational, research and outreach levels. This cooperation is accompanied by intensive mobility of students and staff, which strengthens the exchange of knowledge, experience and innovation across the Alliance.

10 PARTNERS / 10 COUNTRIES / 20 000 STAFF / 200 000 STUDENTS

Goals

- Educate multilingual, socially responsible European citizens who build and strengthen the link between science and society
- Building an analogue and virtual EULiST European inter-university campus with a strong culture of diversity, inclusion and sustainability
- Developing innovative, flexible and interactive teaching formats and curricula with close and sustainable integration of cutting-edge research
- Establishing cross-border teams of students, scientists and regional actors who develop sustainable solutions for contemporary societal challenges in transnational, interdisciplinary and cross-sectoral constellations
- Creating a cooperative network of knowledge and transfer between participating regions as scientific sites to support knowledge-based research, innovation and evidence-based policy-making.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Research

In 2024, STU substantiated its **exceptional position among Slovak public universities** in several indicators:

- domestic grants (17.6 % share of all universities – 2nd place);
- foreign research grants (16 % share – 3rd place);
- research grants from other entities (30 % share – 2nd place);
- other foreign grants (a little over 12 % – 2nd place;
- total publication activity (11 % – 2nd place);

STU provides an active support to young researchers, excellent teams of young researchers and the scheme for awarding the best scientific personalities and the best outputs of creative activity.

The **"HR Excellence in Research"** label is being successfully maintained also thanks to the development project obtained.

In 2024, there was the big opening of **STU University Centre** – a unique space connecting the University with the public. The main goal of establishing the STU University Centre is to create a stimulating environment for University students, contribute to the development of their creativity, and support the increase in interest of young talents in studying at STU.

Current interesting projects responding to contemporary challenges:

- **BIG PROJECTS FOR EXCELLENT RESEARCHERS:** Development of single-molecule magnets and spin crossover complexes: a new generation of light-tunable magnetic switches for surface deposition;

- **SK CHIPS:** Significant initiation of the development of the semiconductor technology ecosystem in Slovakia, leading to the award of a project focused on the development of the semiconductor industry ecosystem with a focus on semiconductor chip packaging in the Digital Europe program;

- **Cooperation with Taiwan in the field of semiconductors is progressing successfully:** the process of establishing laboratories and transferring know-how has begun; potential aim at the production of back-end products, electromobility development products and research, and in the field of compound semiconductors and power modules.

- Success of the project proposal **"Beyond 7 Dangers"**, which has been awarded a grant from the Council of Europe – EUR-OPA Major Hazards Agreement platform. The project, aiming at education and presentation of research in a popular way, reflects our commitment to fostering awareness and education on major hazards across all generations. preparedness, and resilience in the face of natural and technological hazards.

GRANT SCHEMES

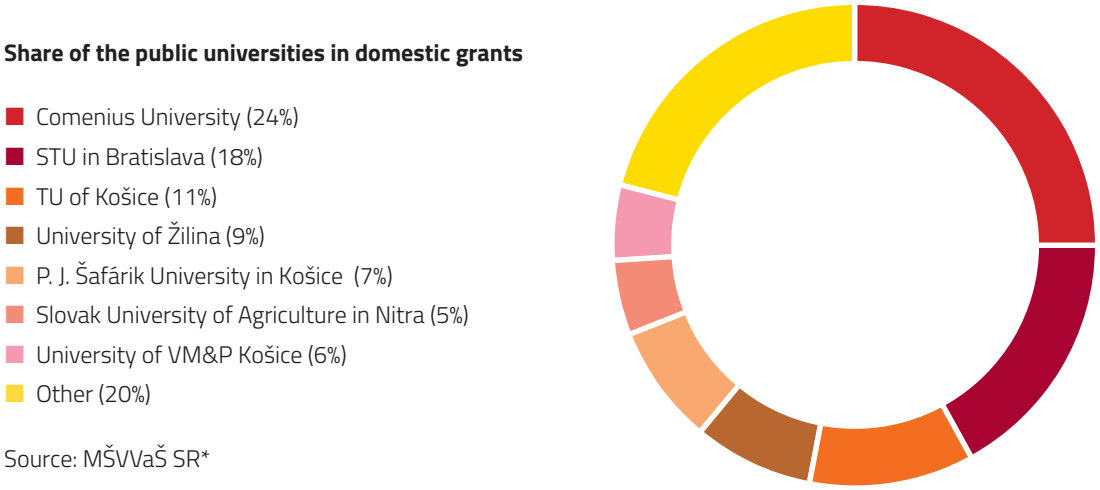
The basic prerequisites for implementation of scientific and research activities are the funds obtained from the budget, based on the external factors determined by evaluation of the University (comprehensive accreditation; the University share of the indicators determining the subsidy distribution in the current calendar year).

Internal factors include the existing research capacity of the University, its instrument base or infrastructure of workplaces. In the light of these indicators, STU belongs to the best universities in Slovakia.

Domestic Research Grants

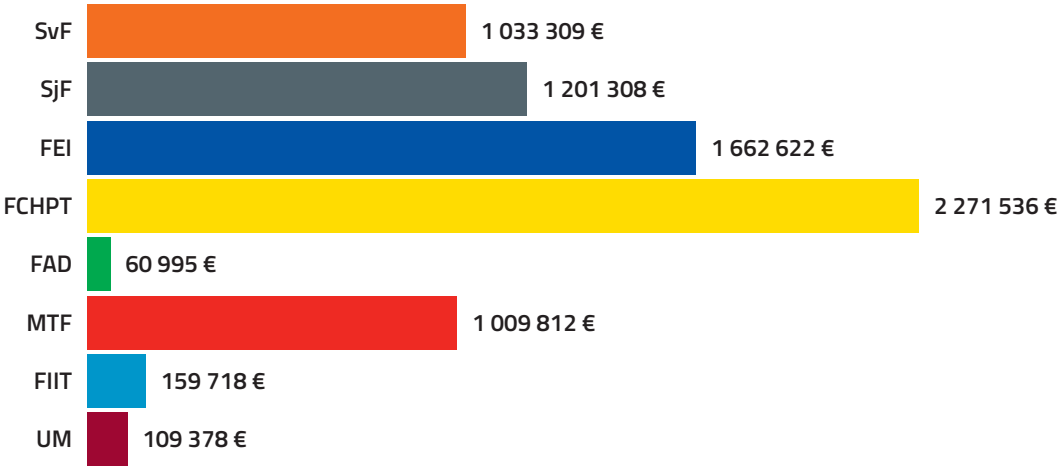
Seven Slovak higher education institutions obtained 80 % of financial funds.
STU gained 17.6 % out of the total volume of the above-mentioned financial means.

Share of the public universities in domestic grants



Source: MŠVVaŠ SR*

Financial means from the domestic grant agencies according to individual STU parts



Source: STU

* The Ministry of Education, Research, Development and Youth of the Slovak Republic

Foreign Research Grants

Up to 80 % of the funds was obtained by seven universities, while the STU's share represents 17 %.
In other foreign grants, STU ranks second with its 16 %-share in the total amount of the funds received.

Share of public universities in the foreign research grants

- Comenius University (18%)
- STU in Bratislava (16%)
- TU of Košice (10%)
- A. Dubček University of Trenčín (18%)
- University of Žilina (6%)
- Slovak University of Agriculture in Nitra (6%)
- University of Economics in Bratislava (6%)
- Other (20%)

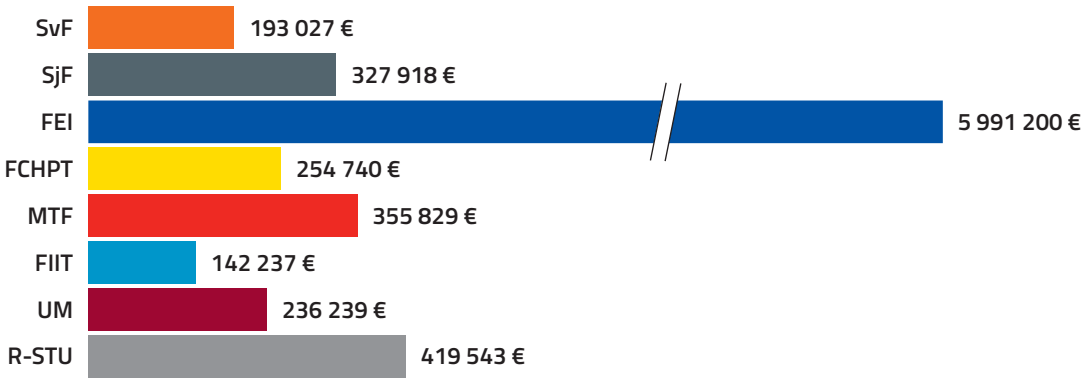
Source: MŠVVaŠ SR*

Share of public universities in other foreign grants

- Comenius University (10%)
- University of Prešov (5%)
- University of Ss. Cyril and Methodius in Trnava (7%)
- STU in Bratislava (12%)
- University of Žilina (9%)
- Constantine the Philosopher University in Nitra (6%)
- TU of Košice (4%)
- University of Economics in Bratislava (6%)
- Slovak University of Agriculture in Nitra (15%)
- P. J. Šafárik University in Košice (5%)
- J. S. University (5%)
- Other (16%)

Source: MŠVVaŠ SR*

Share of the STU parts in foreign grants



Source: MŠVVaŠ SR

PROJECT SCHEMES MANAGED BY THE EUROPEAN COMMISSION

STU has been actively involved in international scientific research programs for a long time and is among the most successful institutions in Slovakia, both in terms of the number of funded projects and the volume of funds obtained in the Horizon framework programs and other schemes managed by the European Commission. The Centre for European Projects (CEP CEPSIT) actively supports STU's involvement in these initiatives by promoting EU challenges and providing advice and assistance to research teams in the phases of preparation of project proposals and their implementation.

Project applications submitted in the year 2024

	●	●	●	●	●	●	●	●	●**	●***	N/A	∑
HORIZON	11		12	16	5	3	4	2	3	2		**59**
DIGITAL			3				1				2	**6**
CEF 2027		1										**1**
LIFE 2027	2											**3**
LIFE 2028							1					**1**
EIT M									3			**3**
EIT UM									2			**2**

* Institute of Management / ** Rector´s Office / *** STU/assoc. Partner / Source: STU

The projects implemented in the year 2024 are listed in the Table Appendix in pages 36-43.

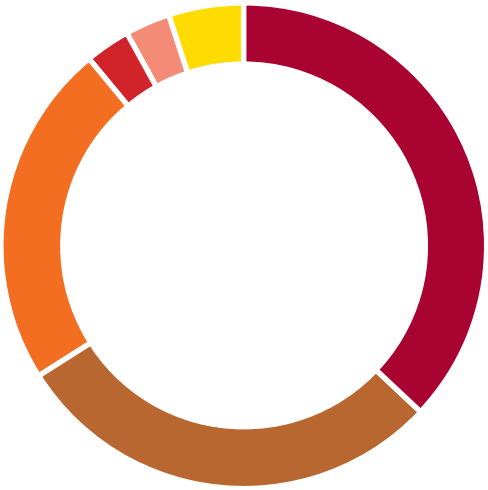
CONTRACTUAL RESEARCH

Departments of the STU faculties in Bratislava deal with the research projects for domestic and foreign economic entities in the form of contractual research which is obtained in a competitive form with exactly defined subject of performance and form of output, while the research results are usually handed over upon the review of the results. In he year 2024, 337 contractual research projects for industrial practice were solved at STU.

Share of the public universities in the research projects from other subjects

- STU in Bratislava (37%)
- University of Žilina (29%)
- TU of Košice (23%)
- Comenius University (3%)
- Slovak University of Agriculture in Nitra (3%)
- Other (5%)

Source: MŠVVaŠ SR*

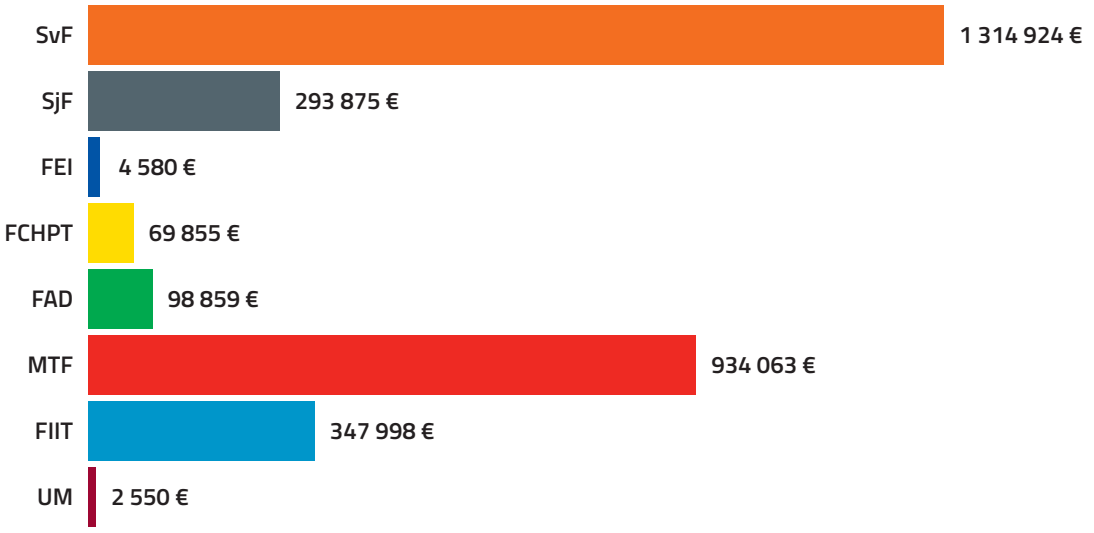


Contractual research projects

	●	●	●	●	●	●	●	●	Σ
No. of projects	57	41	5	15	6	200	12	1	**337**

Source: STU

Research contracts for work



Source: STU

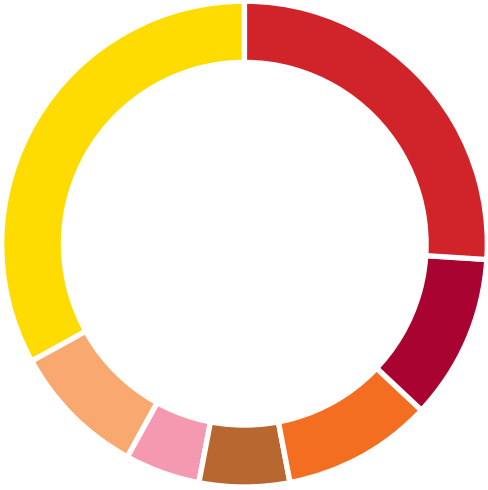
* The Ministry of Education, Research, Development and Youth of the Slovak Republic

OUTPUT OF CREATIVE ACTIVITY

Quality of the creative activity outputs is a decisive factor in the evaluation of the scientific and artistic activity of each university. STU's share in the total publication output of the Slovak universities represents 11 %. STU is thus the second most productive university in the field.

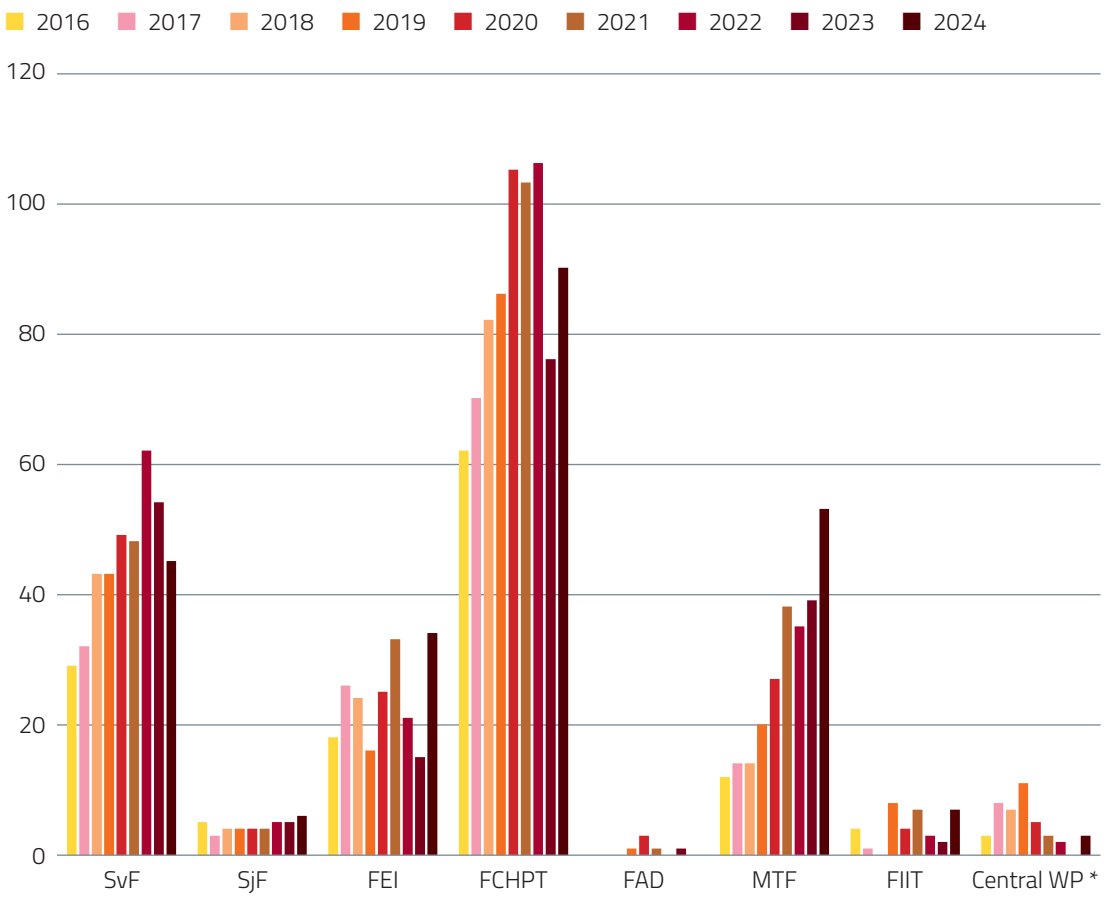
Share of the public universities in the total publication activity as a basis for funds division

- Comenius University (26%)
- STU in Bratislava (11%)
- TU of Košice (10%)
- University of Žilina (6%)
- PU (5%)
- P. J. Šafárik University in Košice (10%)
- Other (32%)



Source: MŠVVaŠ SR*

Number of publications of individual STU faculties in Web of Science in Q1



Source: ARL Library system / * Central workplaces

* The Ministry of Education, Research, Development and Youth of the Slovak Republic

Number of publications of individual STU Faculties in Scopus

	🟠	⚫	🔵	🟡	🟢	🔴	🔵	🟣	Σ
2016	186	60	238	34	30	124	68	24	**732**
2017	275	87	191	15	22	163	59	27	**816**
2018	212	87	248	51	25	137	48	9	**780**
2019	302	86	231	138	43	180	78	31	**1045**
2020	274	65	224	210	23	180	43	15	**1001**
2021	219	59	239	220	30	167	26	15	**947**
2022	204	45	283	217	28	143	66	15	**968**
2023	224	61	243	191	37	161	70	18	**977**
2024	173	57	249	213	24	196	77	17	**983**

Source: ARL Library system

EXCELLENT ACHIEVEMENTS OF THE STU AUTHORS

Rector's Award for the best publications in the year 2023

- Category of Publications published in 2022 – 2024
  and attributed as a highly cited paper in the WOS database:
  Radko Mesiar, Prof. RNDr., DrSc. 🟡
  author of the articles "Intuitionistic fuzzy geometric aggregation operators in the framework of Aczel-Alsina triangular norms and their application to multiple attribute decision making"

Rector's Award for an original artistic or architectonic work in the year 2024

- Category of Original artistic work
  Michala Lipková, doc. Mgr. art, ArtD., Filip Maukš, Mgr. art, ArtD. 🟢 :
  PHYGITAL
  Honorable Mention
  Peter MAZALÁN, doc. Mgr. art. Ing. arch., PhD. 🟢 :
  Songs for dead children
- Category of Original architectonic work
  Vladimír Šimkovič, Prof. Ing. arch., PhD., Natália Bošková Filová, Ing. arch., PhD.,
  Roman Hajtmanek MArch Ing. arch., PhD., students – Daša Batešková, Barbora Fabová,
  Nicolas Fádlik, Ivana Jančová, Lorenzo Malavasi, Štefan Marenčák and Miroslav Tóth, Bc. 🟢 :
  Revitalization of the Žilina Urban Area, reconstruction of Mariánske námestie and adjacent streets


CAUTION

INTERNAL SCHEMES OF SUPPORTING CREATIVE ACTIVITY IN STU

STU continuously strives to identify and support both, individuals and excellent research teams via several internal mechanisms. Those include the schemes of supporting excellent teams of young researchers and the offer of postdoctoral positions.

Projects for supporting young researchers
The program for supporting young researchers is one of the STU several motivational tools. In 2024, young scientists succeeded for the 14th time in the competition within the scheme of the Program for the Young Researchers Support, and won grants from STU for their scientific research projects. In accordance with the current Directive, young employees (PhD students and employees under the age of 30) submitted a total of 121 projects. Of those, 98 projects were financed, while 36 of which were implemented by women and 62 by men.

Excellent teams of young researchers
Additional support for young researchers is the extension of the Grant scheme to support excellent teams of young researchers under the conditions of STU in Bratislava. In 2024, the 10th year of the program involved 16 teams formed of the representatives of six STU parts, while nine projects received the support.

Financed projects:

Advanced machine learning system for degradation analysis and signal recovery in wearable SMART ECG devices
Principal investigator: Martin Berki, Ing.

Research on path generation and motion planning of an industrial robot and its use in hybrid manufacturing with ME technology and subtractive processes, IRHM
Principal investigator: Martin Csekei, Ing, arch., PhD.

Experimental-computational support for the development of fibre-reinforced polymer components
Principal investigator: Tomáš Koščo, Ing., PhD.

Optimization of extraction procedures in the control of contamination of bee products
Principal investigator: Ján Hrouzek, Ing.

The impact of blue-green infrastructure on the quality of discharged waters
Principal investigator: Maksim Portnov, Mgr.

Innovations in plant protein processing: design of advanced technologies and equipment for sustainable production
Principal investigator: Tatiana Holkovičová, Ing.

Blockchain-based framework for provenance verification and supply chain management of construction materials, products and construction works
Principal investigator: Lukáš Mastiľak, Ing., PhD.

Transformation of PET waste: A sustainable path to polyalkyd resin production and plastic recovery
Principal investigator: Alexandra Tulipánová, Ing.

Post-doc working positions

The STU program of Postdoctoral Work Stays was replaced by the SASPRO 2 program. Its goal is to strengthen the scientific organizations of the Slovak Academy of Sciences (SAS) and the faculties of STU and Comenius University (UK) with the researchers from the top foreign workplaces, improve the quality of cooperation between scientific and applied sectors, and support multidisciplinary approaches to project solutions. The program also attempts to intensify the mutual links between SAS, STU and UK, supporting their cooperation with foreign workplaces and building a network of contacts facilitating international cooperation.

In 2024, seven researchers working at STU within SASPRO 2 dealt with the following projects:

- **Hardware security of neural networks**
  Xiaolu Hou, Bc., Ph.D.
- **AIpology – Artificial intelligence for personalised oncology**
  Michal Kováč, doc. Mgr., MSc., PhD.
- **Advances in guidelines for responsible machine learning**
  Jooyoung Hahn, MSc., PhD.
- **Common aspects of theoretical physics and technical sciences**
  Veronika Gáliková, Mgr., PhD.
- **Graphic carbon nitride – advanced nanomaterials in wastewater treatment**
  Tomáš Homola, doc. RNDr., PhD.
- **Research into regional innovative capacity**
  Sila Ceren Varis Husar, Ing., PhD.
- **Atomic 2D layers of quaternary and ternary alloys for innovative photocatalysis**
  Ravi Kumar Biroju, Dr.

STU Doctoral School

The STU Doctoral School covers interdisciplinary educational activities for the development of scientific and research competencies of doctoral students and young researchers in the areas such as publishing, presentation skills and communication, research funding and grant writing, career development, research ethics, intellectual property protection, etc.

In the summer semester 2023/2024, various seminars were organized for Doctoral students within the subject of Methodology of scientific work 2; in the winter semester 2024/2025, seminars/webinars were organized within the subject of Methodology of scientific work 1.


DOCTOR
HONORIS
CAUSA

Awards granted to STU employees

STU Scientific Personality for the year 2024 in the "Young scientist" category
Tomáš Vopát, Ing., PhD.

Habilitation and inauguration proceedings

At the meetings of the Scientific Board of STU (VR STU) in 2024, 13 proposals for the appointment of professors were approved. Subsequently, the following have been appointed by the President of the Slovak Republic:

Juraj Beniak, Prof. Ing., PhD. (Production Technology)
Viktor Borzovič, Prof. Ing., PhD. (Engineering Structures and Transport Structures)
Katarína Gajdošová, Prof. Ing., PhD. (Engineering Structures and Transport Structures)
Miroslav Gál, Prof. RNDr., PhD. (Chemical technologies)
Michal Jablonský, Prof. Ing., PhD. (Macromolecular substance technology)
Marián Janek, Prof. Ing., PhD. (Chemical Technologies)
Daniel Kalús, Prof. Ing., PhD. (Building Construction)
Michal Krajčík, Prof. Ing., PhD. (Building Construction)
Dana Seyringer, Prof. Dr. habil., PhD. (Electronics)
Tibor Schlosser, Prof. Ing., CSc. (Engineering Structures and Transport Structures)
Alexander Schrek, Prof. Ing., PhD. (Mechanical Engineering Technologies and Materials)
Valentino Vranić, Prof. Ing., PhD. (Applied Informatics)
Katarína Žáková, Prof. Ing., PhD. (Cybernetics)

Doctor honoris causa
Proposals for awarding the title "doctor honoris causa" to Prof. Levente Adalbert Kovács and the Nobel Prize winner in Chemistry Prof. Dan Shechtman were discussed and approved at the meeting of the STU Scientific Board on 23 March 2024. The proposal for awarding the "doctor honoris causa" to Prof. Ing. Zenon Jan Pudlowski, PhD. was discussed and approved at the meeting of the STU Scientific Council on 19 June 2024.

The awarding ceremony took place in September (L. A. Kovács, Z. J. Pudlowski) and November (D. Shechtman) 2024.

Support Services in the Field of Research

Access to databases of scientific knowledge is an essential part of the work of scientists in the current global and interdisciplinary science and research. STU creates conditions to support creative activity of its employees and students by providing services, particularly that of the University Library, to the scientific workplaces and units of international scientific and technical cooperation.

Research Integrity, Open Science, Open Access, STU OA Institutional Repository
STU is committed to fulfilling the obligations defined in the national document of Declaration on strengthening the scientific integrity in Slovakia, the aim of which is the observance of the highest ethical standards in the area of research and education integrity, as well as the support for Scientific Integrity in the National Code of Ethics.

STU Concept of open science
In the year 2024, STU continued implementing the Open Access policy in accordance with the European Commission's Recommendation on Open Access to Scientific Information.

HR Excellence in Research
STU is one of the successful scientific institutions of the European Union, which received the label of "HR Excellence in Research". It is a prestigious award granted by the European Commission to those institutions that have demonstrated their commitment to complying with the 40 principles of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers within the Human Resources Strategy for Researchers (HRS4R).

Utilisation of the creative activity results in practice

Protection of industrial property at STU is ensured by the Knowledge Transfer Office. The Office provides professional advice to the authors of industrial property objects in the field of industrial property protection, filing applications at the Slovak Republic Industrial Property Office, promoting the results of research and development applicable in practice, searching for and negotiating with partners from industry, etc.

28	**Author's notice on creating an object of industrial property**
32+1	**Granted patents**
24	**Registrered utility models**
19	**Applications of utility models**
14	**Patent applicattions**
1	**EUIO application**
4	**PCT applications**
1	**Trademark application**

STU Technology Incubator / InQb

InQb conveys entrepreneurial education to the STU students, graduates or employees, be it idea validation and business basics (START; 8 months) or startup growth (UPCELERATE; 4 months).

InQb is the centre of entrepreneurship assistance to STU affiliates in the form of educational activities (lectures and workshops with experts from practice), mentoring by established mentors, networking and matchmaking events as well as co-work office space, which promotes transformation of ideas (solutions) into viable businesses.

To illustrate the impact of InQb, a total of 96 companies has been incubated there since its establishment in 2005, while 57 of them being still actively operating.

STU Scientific, s.r.o.

Mission of the STU Scientific, s.r.o. is to support the economic valorisation and appreciation of the STU intellectual property, members of its academic community and other partners in the business sphere. Currently, there are the following spin-off companies established on the University premises, benefiting from the STU scientific research potential:

- **STUVITAL, s.r.o.**
  Research and preparation of fortified particularly cereal products via applying innovative technology of recovery of cereal by-products and original recipe ingredients.

- **IVMA STU, s.r.o.**
  Design of electrodes for spot resistance welding of galvanized sheets. The research was conducted in cooperation with Matador Vráble, a future user of the research results. Further activity is focused on the field of base and applied research of Electro Spark Deposition (ESD) along with implementation of the ESD research results in industrial practice.

- **SMME - STU, s.r.o.**
  Research and development in the field of mechatronic systems utilising the latest knowledge and trends in the information, communication and control technologies.

- **Neural medical s.r.o.**
  The main activity of the Company is the analysis, processing and evaluation of data from wearable biometric and medical devices, the design of new algorithms for the processing of measured data representing the health status of patients, based on the utilisation of artificial neural networks (UNS) and machine learning.

- **InnoSTU s.r.o.**
  The main focus of the Company is provision of services in the fields of industrial automation, applied informatics and cyber security. Its goal is to bidirectionally connect the academic sphere with practice, and thus provide support to the companies interested in developing and increasing the efficiency of their technological processes. Ensuring efficient utilisation of resources via automation and artificial intelligence is the only option to remain competitive.

- **ENFEI s.r.o.**
  Operation of the electricity system with a focus on optimizing the development and operation of electrical networks of all voltage levels, as well as the source base of the electricity system of the Slovak Republic. In the area of smart grids, it concerns mainly the preparation of pilot projects, technology designs as well as the testing and verification of systems.

- **Hydrotechnika STU, s.r.o.**
  Transfer of the research and development knowledge in the field of water structures into practice.

- **B&J NUCLEAR, s.r.o.**
  The Company focuses on implementation of the research findings in the field of reactor physics to engineering applications. It specializes in analyses of safe operation of nuclear reactors, optimization of radiation shielding and operation of current and advanced nuclear fuel. The Company activities are performed in the form of expert analyses, development of methodologies and safety analyses of selected states and configurations of nuclear facilities. The Company is also actively involved in the national and international projects, the research and development in the field of natural and technical sciences, the field of nuclear energy in particular.

- **MicroPoll s. r. o.**
  The Company's key activities comprise the standard analyses of basic parameters (organic, inorganic and microbial pollution) of various types of water, soil and air, the chemical analyses aimed at the occurrence of micro and nanoplastics and micropollutants, the occurrence of pathogens and resistance genes, the development of new types of sensors used in the diagnosis of diseases and in the analysis of pollutants and military agents, the new types of detectors aimed at analysing water, soil and air pollution, the research into the development of new types of materials (e.g. micro and nanofibres usable as e-textiles, sensors in the form of textiles and products made of them) or for the production of self-cleaning materials and suits designed particularly for security forces and athletes.

- **Orglabs s.r.o.**
  The key interest is research and development activity in the field of organic electronics, sensors and IoT (internet of things). Applied research in the above-mentioned areas combines multidisciplinary issues into one discipline and brings to the market a new generation of organic sensors, as well as other elements of organic electronics.

Table Appendix

Awards won by individual students or student teams at the international level

WIUC 2024, Paris				1		1		1
The World Academic Championship/speed canoing				1				
Best Paper Award (2nd International Conference of Computational Intelligence and Network systems, Dubai			1					
Buildner Student Awards					1			
Award of Laurine & Clement 2024					1			
Awards of Jindřich Habala					3			
Design Talent Cards 2024					1			
Designblock 2024					1			
Eastern & Central Europe Region Young Ennergy Professional 2023	1							
EURoROMA		1						
Graduation Projects 2024					1			
Industrial Aestetics Challenge for Universities					1			
Inspirelli Awards					3			
KOLABO 2024					1			
ICCT Conference 2024				1				
The Europe Championship/speed cannoing				1				
The Europe Championship/armwrestling		1						
The Europe Championship/powerlifting				1				
The World Championship/basketball			1					
Warper Startup Awards						1		
Moon Station					1			
Pulse Award					1			
Saing-Gobain Architecture Student Contest 2024	2				3			
IT SPY			1					
Building with the scent of Wood 2024	1							
Terra Viva Award					1			
Student research Conference 2024 , Mladá Boleslav						3		
Young Architect Award					1			
Youth Photo Competition - Rail4V4					11			
∑	**2**	**7**	**3**	**5**	**31**	**5**		**1**

Statistics of appointed Associate Professors (docent)

								∑
II./2024		1						**1**
IV./2024	5	1	2	1			3	**12**
VI./2024	5	1		3	1		4	**14**
VIII./2024			2			1		**3**
XII./2024			2	4	1			**7**
∑	**10**	**3**	**6**	**8**	**2**	**1**	**7**	**37**

Number of publications of individual STU faculties in Web of Science in Q1, Q2, Q3 and Q4 registered in ARL

	2016				2017				2018			
	Q1	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
	29	22	13	6	32	13	19	8	43	18	5	10
	5	3	1	4	3	4	2	9	4	2	5	6
	18	21	19	25	26	22	39	34	24	18	28	32
	62	51	47	23	70	81	45	39	82	62	51	22
	0	0	0	0	0	1	1	0	0	0	0	1
	12	11	15	8	14	11	17	14	14	8	23	13
	4	3	3	4	1	0	0	7	0	2	6	3
	3	4	3	0	8	5	6	3	7	2	2	1

	2019				2020				2021			
	Q1	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
	43	21	14	6	49	28	16	5	48	41	12	9
	4	1	3	10	4	6	5	5	4	17	3	2
	16	25	16	28	25	24	16	40	33	58	23	20
	86	73	44	22	105	73	52	23	103	95	27	9
	1	0	0	0	3	0	0	0	1	2	0	0
	20	32	17	11	27	28	14	12	38	43	8	9
	8	5	3	4	4	3	5	1	7	1	1	3
	11	12	1	0	5	7	2	2	3	9	2	2

	2022				2023				2024			
	Q1	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
	62	30	14	12	54	32	15	13	45	22	27	17
	5	9	2	2	5	14	0	0	6	5	1	3
	21	36	19	16	15	53	12	12	34	29	16	13
	106	62	31	27	76	87	16	14	90	75	18	19
	0	3	0	0	1	3	0	0	0	3	0	0
	35	32	10	4	39	52	13	3	53	39	10	30
	3	5	4	1	2	7	2	0	7	11	5	1
	2	1	0	0	0	2	1	1	3	1	1	1

Source: ARL Library system

Projects from European Commission schemes implemented in 2024

	Project title	Acronym	Faculty	Call identifier
1	Energy efficient pathway for the city transformation: enabling a positive future	MAKING-CITY	●	LC-SC3-SCC-1-2018-2019-2020
2	European Joint Programme on Radioactive Waste Management	EURAD	●	NFRP-2018-6
3	Fracture mechanics testing of irradiated RPV steels by means of sub-sized specimens (FRACTESUS)	FRACTESUS	●	NFRP-2019-2020-04
4	Safety of GFR through innovative materials, technologies and processes	SafeG	●	NFRP-2019-2020-06
5	Joint European Canadian Chinese development of Small Modular Reactor Technology	ECC-SMART	●	NFRP-2019-2020-05
6	STRUctural MATerials research for safe Long-Term Operation of LWR NPPs	STRUMAT-LTO	●	NFRP-2019-2020-01
7	Boost Of Organic Solar Technology for European Radiance	BOOSTER	●	LC-SC3-RES-9-2020
8	Training European Experts Inflammation: from the molecular players to animal models and the bedside	INFLANET	●	MSCA-ITN-2020
9	Innovation Fostering in Accelerator Science and Technology	I.FAST	●	INFRAINNOV-04-2020
10	Highly EFFICIENT and reliable electric drivetrains based on modular, intelligent and highly integrated wide band gap power electronics modules	HiEFFICIENT	●	ECSEL-2020-2-RIA
11	Sustainable EnErgy Skills In Construction: Visible, Validated, Valuable	SEEtheSkills	●	LC-SC3-B4E-2-2020
12	Boosting the European Value Chain for Sustainable Power Electronics	FastLane	●	HORIZON-KDT-JU-2023-1-IA
13	European Sodium Fast Reactor - Safety by Innovative Monitoring, Power Level flexibility and Experimental research	ESFR-SIMPLE	●	HORIZON-EURATOM-2021-NRT-01-02
14	eurOpean platForm For accEssing nucleaR R&d facilities	OFFERR	●	HORIZON-EURATOM-2021-NRT-01-12
15	Establishment of a Network providing improved professionalised services and support to Euratom National Contact Points and programme applicants.	NetEuratom	●	HORIZON-EURATOM-2021-NRT-01-15
16	DELISA-LTO: DEscription of the extended LIfetime and its influence on the SAfety operation and construction materials performance – Long Term Operation with no compromises in the safety	DELISA- LTO	●	HORIZON-EURATOM-2021-NRT-01-01
17	Innovative Structural Materials for Fission and Fusion	INNUMAT	●	HORIZON-EURATOM-2021-NRT-01-04

	Project title	Acronym	Faculty	Call identifier
18	Building European Nuclear Competence through continuous Advanced and Structured Education and Training	ENEN2plus		HORIZON-EURATOM-2021-NRT-01-13
19	Electronic Components and Systems for flexible, coordinated and resilient Distributed Renewable Energy Systems	ECS4DRES		HORIZON-KDT-JU-2023-1-IA
20	Sustainable Transition to the Agile and Green Enterprise	STAGE		HORIZON-CL4-2021-RESILIENCE-01-29
21	Centre for Innovative Healthcare	CIH		DIGITAL-2021-EDIH-01
22	Acoustic and Thermal Retrofit of Office Building Stock in EU	ActaReBuild		HORIZON-MSCA-2021-DN-01-01
23	Fostering Opportunities Towards Slovak Excellence in Advanced Control for Smart Industries	FrontSeat		HORIZON-WIDERA-2021-ACCESS-03
24	Developing methodologies for the integration of low-grade energy sources into high-temperature district heating networks	LIFE22-CET-Low2HighDH		LIFE-2022-CET
25	Novel optical nanocomposite sensors for analysis of micro and macro elements in corn plants	SENS4CORN		HORIZON-MSCA-2021-SE-01
26	Affordable smart GaN IC solutions as enabler of greener applications	ALL2GaN		HORIZON-KDT-JU-2022-1-IA
27	A Comprehensive Framework enabling the Delivery of Trustworthy Datasets for Efficient AIoT Operation	PANDORA		HORIZON-CL4-2023-HUMAN-01-CNECT
28	FOstering a Recycled European Silicon supply	FORESi		HORIZON-CL4-2023-RESILIENCE-01
29	New MOBility solutions for clImate neutraLity in EU cITIES	MOBILITIES		HORIZON-MISS-2023-CIT-01
30	TWIN-ON-A-CHIP BRAINS FOR MONITORING INDIVIDUAL SLEEP HABITS – HOP ON	Nap-Hop On		HORIZON-WIDERA-2023-ACCESS-06
31	Widening Synergies for Novel Enzymes Development	WIDEnzymes		HORIZON-WIDERA-2023-ACCESS-04
32	FOSTERING RESEARCH EXCELLENCE OF STU IN DIGITAL TWINNING FOR SUSTAINABLE AND SAFE ELECTRIC VEHICLES	FreeTwinEV		HORIZON-WIDERA-2023-ACCESS-02-02
33	Addressing PRiorities of Evaluated Nuclear Data in Europe	APRENDE		HORIZON-EURATOM-2023-NRT-01
34	C-Roads European C-ITS Platform	23-EU-TG-C-Roads Extended		CEF-T-2023-SIMOBGEN

The Horizon Europe projects

	Project title	Acronym	Principle investigator	Faculty	Call identifier	Finance scheme
1	Sustainable Transition to the Agile and Green Enterprise	STAGE	Marcel Kuruc, doc. Ing., PhD.	● / ●	HORIZON-CL4-2021-RESILIENCE-01-29	CSA
2	Acoustic and Thermal Retrofit of Office Building Stock in EU	ActaReBuild	Vojtech Chmelík, doc. Ing., PhD.	●	HORIZON-MSCA-2021-DN-01	MSCA
3	Fostering Opportunities Towards Slovak Excellence in Advanced Control for Smart Industries	FrontSeat	Miroslav Fikar, Prof. Ing., DrSc.	●	HORIZON-WIDERA-2021-ACCESS-03	HORIZON
4	DELISA-LTO: DEscription of the extended LIfetime and its influence on the SAfety operation and construction materials performance – Long Term Operation with no compromises in the safety	DELISA-LTO	Vladimír Slugeň, Prof. Ing., DrSc.	●	HORIZON-EURATOM-2021-NRT-01	EURATOM
5	Building European Nuclear Competence through continuous Advanced and Structured Education and Training Actions	ENEN2plus	Štefan Čerba, Ing., PhD.	●	HORIZON-EURATOM-2021-NRT-01	EURATOM
6	European Sodium Fast Reactor - Safety by Innovative Monitoring, Power Level flexibility and Experimental research	ESFR-SIMPLE	Branislav Vrban, Ing., PhD.	●	HORIZON-EURATOM-2021-NRT-01	EURATOM
7	Innovative Structural Materials for Fission and Fusion	INNUMAT	Vladimír Kršjak, Ing., PhD.	●	HORIZON-EURATOM-2021-NRT-01	EURATOM
8	Establishment of a Network providing improved professionalised services and support to Euratom National Contact Points and programme applicants.	NetEuratom	Vladimír Slugeň, Prof. Ing., DrSc.	●	HORIZON-EURATOM-2021-NRT-01	EURATOM
9	eurOpean platForm For accEssing nucleaR R&d facilities	OFFERR	Branislav Vrban, Ing., PhD.	●	HORIZON-EURATOM-2021-NRT-01	EURATOM
9	Fostering Opportunities Towards Slovak Excellence in Advanced Control for Smart Industries	FrontSeat	Miroslav Fikar, Prof. Ing., DrSc.	●	HORIZON-WIDERA-2021-ACCESS-03	CSA
10	Towards reliable and safe GFR	TREASURE	Vladimír Slugeň, Prof. Ing., DrSc.	●	HORIZON-EURATOM-2023-NRT-01	EURATOM

	Project title	Acronym	Principle investigator	Faculty	Call identifier	Finance scheme
11	Coordination of the European Research Community on Nuclear Materials for Energy Innovation	CONNECT-NM	Vladimír Slugeň, Prof. Ing., DrSc.	●	HORIZON-EURATOM-2023-NRT-01	EURATOM
12	European Partnership on Radioactive Waste Management - 2	EURAD-2	Vladimír Slugeň, Prof. Ing., DrSc.	●	EURATOM-2023-RADIOWASTE-IBA	EURATOM
13	Quantization by Internalization	QuInt	Gejza Jenča, doc. Mgr., PhD.	●	HORIZON-WIDERA-2023-TALENTS-02	HORIZON
14	TWIN-ON-A-CHIP BRAINS FOR MONITORING INDIVIDUAL SLEEP HABITS – HOP ON	Nap-Hop On	Erik Vavrinský, doc. Ing., PhD.	●	HORIZON-WIDERA-2023-ACCESS-06	HORIZON
15	Affordable smart GaN IC solutions as enabler of greener applications	ALL2GaN	Juraj Marek, doc. Ing., PhD.	●	HORIZON-KDT-JU-2022-1-IA	HORIZON
16	Novel optical nanocomposite sensors for analysis of micro and macro elements in corn plants	SENS4CORN	Martin Sahul, Ing., PhD.	●	HORIZON-MSCA-2021-SE-01	MSCA
17	FOstering a Recycled European Silicon supply	FORESi	Ľubomír Šooš, Dr.h.c.Prof. Ing., PhD.	●	HORIZON-CL4-2023-RESILIENCE-01	HORIZON
18	New MOBility solutions for clImate neutraLity in EU cITIES	MOBILITIES	Vladimír Ondrejička, doc. Ing., PhD.	●*	HORIZON-MISS-2023-CIT-01	HORIZON
19	A Comprehensive Framework enabling the Delivery of Trustworthy Datasets for Efficient AIoT Operation	PANDORA	Branislav Vrban, Ing., PhD.	●	HORIZON-CL4-2023-HUMAN-01-CNECT	HORIZON
20	Widening Synergies for Novel Enzymes Development	WIDEnzymes	Martin Rebroš, doc. Ing., PhD.	●	HORIZON-WIDERA-2023-ACCESS-04	HORIZON
21	Boosting the European Value Chain for Sustainable Power Electronics	FastLane	Aleš Chvála, doc. Ing., PhD.	●	HORIZON-KDT-JU-2023-1-IA	HORIZON
22	FOSTERING RESEARCH EXCELLENCE OF STU IN DIGITAL TWINNING FOR SUSTAINABLE AND SAFE ELECTRIC VEHICLES	FreeTwinEV	Gabriel Gálik, Ing. PhD.	●	HORIZON-WIDERA-2023-ACCESS-02	HORIZON
23	Electronic Components and Systems for flexible, coordinated and resilient Distributed Renewable Energy Systems	ECS4DRES	Viera Stopjaková, Prof. Ing., PhD.	●	HORIZON-KDT-JU-2023-1-IA	HORIZON

* Institute of Management

The H2020 projects

	Project title	Acronym	Principle investigator	Faculty	Call identifier	Finance scheme
1	Energy efficient pathway for the city transformation: enabling a positive future	MAKING-CITY	Maroš Finka, Prof. Ing. arch., PhD.	*	H2020-LC-SC3-2018-ES-SCC	IA
2	European Joint Programme on Radioactive Waste Management	EURAD	Vladimír Slugeň, Prof. Ing., DrSc.		NFRP-2018	COFUND-EJP
3	The CALIPER project: Linking research and innovation for gender equality	CALIPER	Dagmar Cagáňová, doc., Mgr., PhD.		H2020-SwafS-2019-1	CSA
4	Joint European Canadian Chinese development of Small Modular Reactor Technology	ECC-SMART	Jarmila Degmová, Ing., PhD.		NFRP-2019-2020	RIA
5	Fracture mechanics testing of irradiated RPV steels by means of sub-sized specimens (FRACTESUS)	FRACTESUS	Vladimír Slugeň, Prof. Ing., DrSc.		NFRP-2019-2020	IA
6	Safety of GFR through innovative materials, technologies and processes	SafeG	Vladimír Slugeň, Prof. Ing., DrSc.		NFRP-2019-2020	RIA
7	STRUctural MATerials research for safe Long-Term Operation of LWR NPPs	STRUMAT-LTO	Jarmila Degmová, Ing., PhD.		NFRP-2019-2020	RIA
8	Targeting Real chemical accuracy at the Exascale	TREX	Matúš Dubecký, Ing., PhD.		H2020-INFRAEDI-2019-1	RIA
9	Boost Of Organic Solar Technology for European Radiance	BOOSTER	Martin Weis, Prof. Ing., DrSc.		H2020-LC-SC3-2020-RES-IA-CSA	IA
10	Training European Experts in Inflammation: from the molecular players to animal models and the bedside	INFLANET	Karol Mikula, Prof. RNDr., DrSc.		H2020-MSCA-ITN-2020	MSCA-ITN-ETN
11	Innovation Fostering in Accelerator Science and Technology	I.FAST	Andrea Šagátová, doc. Ing., PhD.		H2020-INFRAINNOV-2020-2	RIA
12	Sustainable EnErgy Skills in construction: Visible, Validated, Valuable	SEEtheSkills	Tomáš Funtík, Ing., PhD.		H2020-LC-SC3-EE-2020-2	CSA
13	Highly EFFICIENT and reliable electric drivetrains based on modular, intelligent and highly integrated wide band gap power electronics modules	HiEFFICIENT	Juraj Marek, Ing. PhD.		H2020-ECSEL-2020-2-RIA-two-stage	ECSEL-RIA

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Production: Dept. of PR of the R-STU, STU Scientific, s.r.o.
Graphic design: Monkey Lounge, s.r.o.
Used photos: R-STU photo archive, Pavel Kudiváni, Filip Izrael

July 2025

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