



Faculty of Chemistry and Geosciences



In 2024, the Faculty of Chemistry and Geosciences of Vilnius University actively developed study programmes, scientific research, and international relations, thereby contributing to the implementation of the University's strategic objectives.

In 2024, the first admissions to the new first cycle study programme 'Cosmetic Chemistry' took place, and 24 students were accepted. The second cycle study programme 'Nanochemistry and Entrepreneurship' was updated, and 16 students enrolled, 11 of whom are from abroad.

We are pleased with the international achievements of the Faculty. Prof. Dr Almira Ramanavičienė and Prof. Dr Ieva Plikusienė participated in the event 'Pitch & Brokerage: Horizon Europe – Lithuanian Researchers' Profile in the Lifesciences'. Prof. Dr Ieva Plikusienė presented her path to science in the documentary 'Mokslo moterys' ('Women in Science'). Prof. Dr Giedrė Beconytė gave a presentation 'National Toponymy Dataset – What Do We All Expect?' at the meeting of the United Nations Group of Experts on Geographical Names.

The University's series 'VU Experts Help Understand' is gaining greater international recognition. Assoc. Prof. Dr Laurynas Jukna and Master student Elzė Buslavičiūtė's publication 'Melting Glaciers are Shifting National Borders' reached approximately nine million readers on international websites, including Travel Daily Media, Phys.org, Earth.com, and Easy Branches.

The Faculty cooperates with various companies, including 'Thermo Fisher Scientific Baltics', 'BiokLab', 'Biotechpharma', 'Litnobiles' UAB, 'HNIT-Baltic' UAB, 'Toksika' UAB, 'Grotas' UAB, and 'Wellgem Biopharma' UAB, which are among the most important ones contributing to scientific research and innovation. Cooperation is also established with the Ministries of the Environment, National Defence, Agriculture, and the Economy and Innovation, as well as the State Data Agency, to solve public interest problems and contribute to policy making.

In 2024, significant conferences were organised: the national 'Chemistry and Geosciences 2024' conference dedicated to the latest research and the 100th anniversary of Prof. Juozas Paškevičius, as well as these international conferences: REMAT 2024 'The 6th International Conference on Rare Earth Materials. Advances in Synthesis, Studies and Applications', 'Electroceramics XIX Conference', and the 9th NoRSA conference 'Regional Outcomes of Global Challenges in the Nordic Countries'.

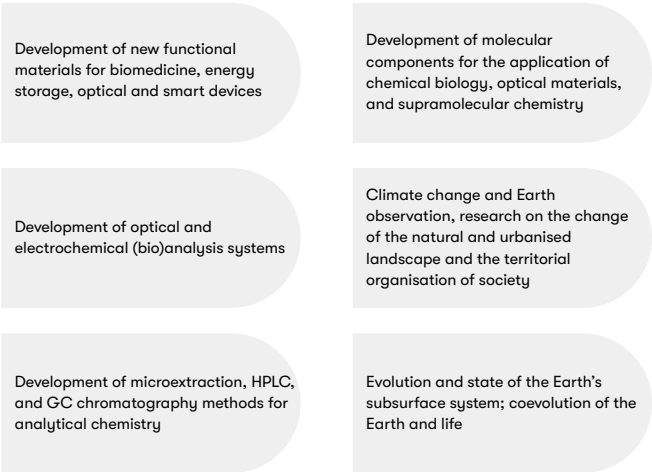
The Faculty community is proud of the achievements and awards of its members. Prof. Dr Almira Ramanavičienė was awarded the Cross of the Knight of the Order of the Lithuanian Grand Duke Gediminas, and Prof. Dr Ieva Plikusienė – the Medal of the Order of the Lithuanian Grand Duke Gediminas. Prof. Dr Giedrė Beconytė won a prize for promoting open science. Assoc. Prof. Dr Vaidas Klimkevičius and lecturer Andrius Balčiūnas were presented with the Vilnius University Rector's Award, and Assoc. Prof. Justina Gaidukevič was elected a member of the Young Academy of the Lithuanian Academy of Sciences (LMA). Students and young researchers also promote the Faculty: Diana Vištorskaja won the Lithuanian Science Prize, doctoral student Kostas Gružas was awarded for the best research paper, and Dr Julija Grigorjevaitė became the winner of the LMA's Young Scientists' Competition.

Vilnius University (VU) and 'Veikmės statyba' UAB signed a EUR 32.8 million contract for the construction of the new Faculty of Chemistry and Geosciences. The building in Saulėtekio Avenue, spanning over the territory of more than 12 thousand square metres, will house the Faculty and the Translational Gene Technology Competency Centre of the Life Sciences Center. The new infrastructure will bring science, research, study, and business potential together in one space.

Prof. Dr (HP) Aivaras Kareiva, Dean

KEY FACTS AND FIGURES

Areas of research interest



Study portfolio in 2024

	Bachelor studies	Master studies
Total number of programmes implemented	8	7
Programmes implemented in a foreign language	-	4
Number of new programmes	1	-
	Doctoral studies	
Number of science fields	5 (Chemistry, Geology, Geography, Materials Engineering, Chemistry Engineering)	

The figures for the study programmes are based on the data of 1 October.

Number of employees, students, and graduates in 2024

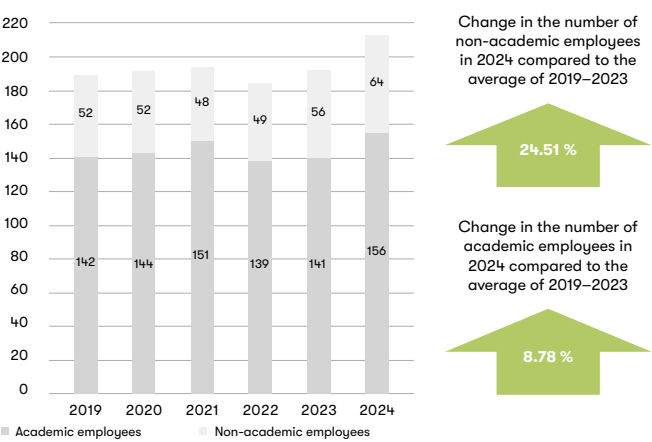


Number of foreign nationals employed in 2023–2024

	Academic employees	Non-academic employees	Total
2024	10	2	12
2023	4	0	4

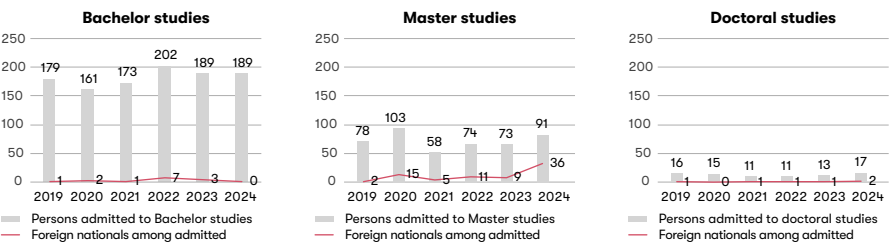
Based on the data of 31 December.

Changes in the number of employees, 2019–2024



Based on the data of 31 December.

Admissions to studies, 2019–2024



Change in the number of admitted persons by study cycle in 2024 compared to the average of 2019–2023



The first cycle and the second cycle indicators were calculated on the basis of the data of 1 October, and the third cycle indicators were calculated on the basis of the data of 31 December.

Number of admitted students who received the highest evaluation in their matura exams in 2023–2024

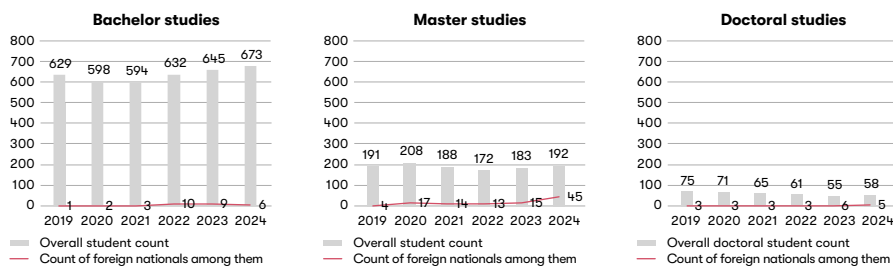


This accounted for 3.12 per cent of the total number of students admitted to VU who received the highest evaluation in their matura exams

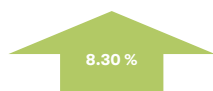
This accounted for 4 per cent of the total number of students admitted to VU who received the highest evaluation in their matura exams

Based on the data of 1 October.

Number of students, 2019–2024

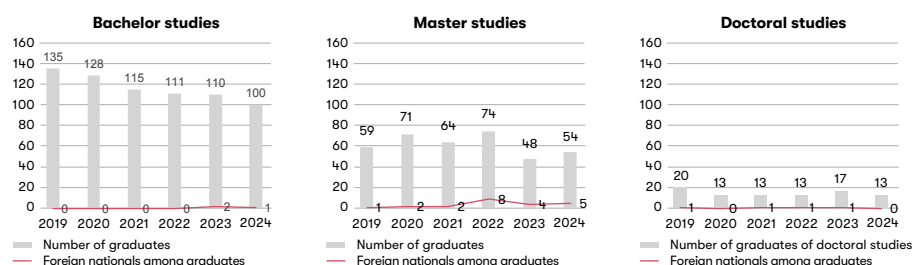


Change in the number of students by study cycle in 2024 compared to the average of 2019–2023



The first cycle and the second cycle indicators were calculated on the basis of the data of 1 October, and the third cycle indicators were calculated on the basis of the data of 31 December.

Number of graduates, 2019–2024

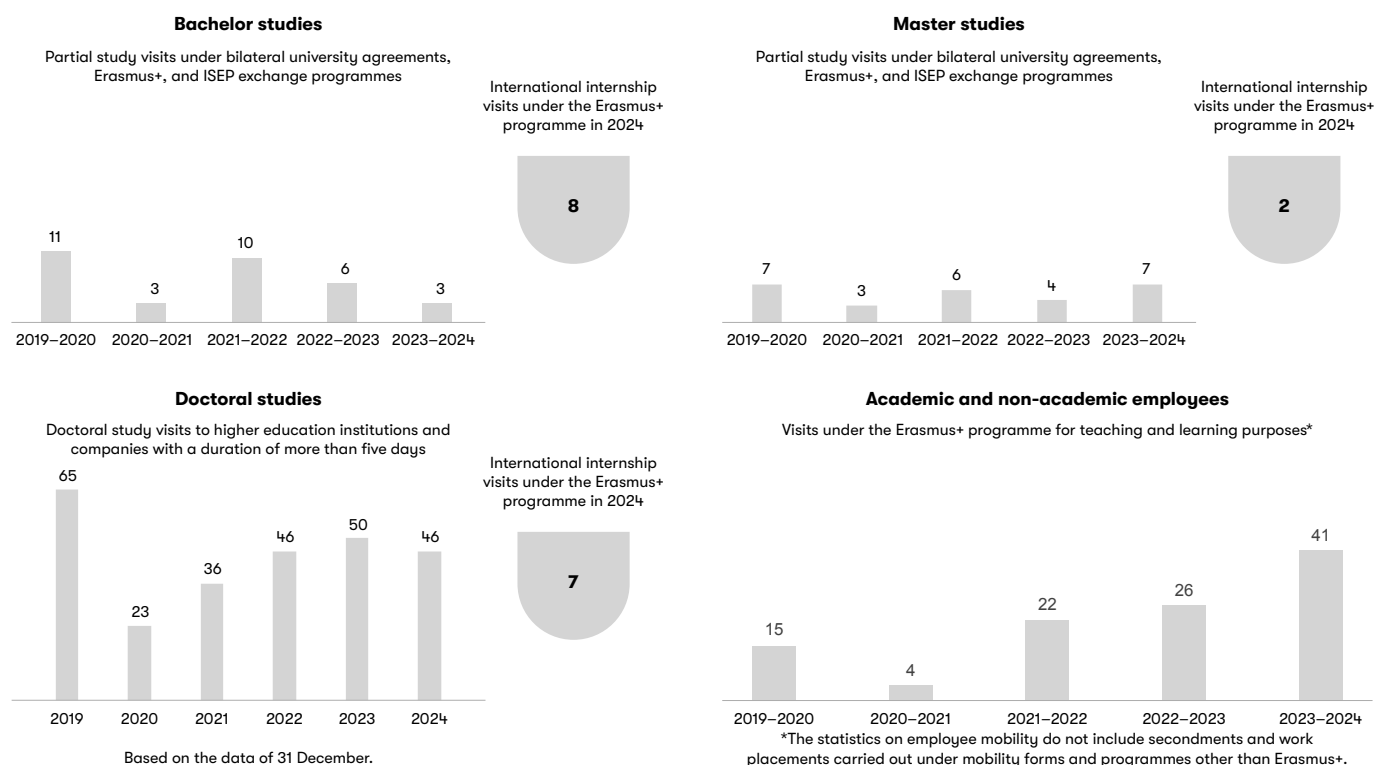


Change in the number of graduates by cycle in 2024 compared to the average of 2019–2023

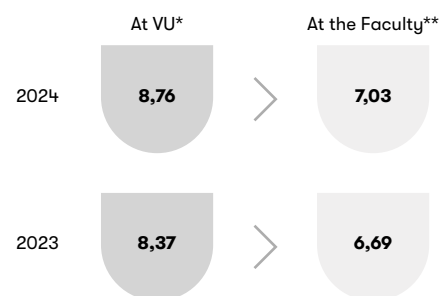


The first cycle and the second cycle indicators were calculated on the basis of the data of 1 September, and the third cycle indicators were calculated on the basis of the data of 31 December.

Mobility of students, doctoral students and employees, 2019–2024



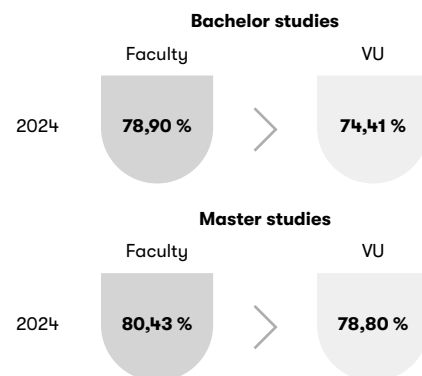
Student–faculty ratio, 2023–2024



* Calculated by dividing the total number of VU students in the first cycle, second cycle, integrated, and professional (pedagogy) studies on 1 October by the total number of VU teaching staff on 31 December.

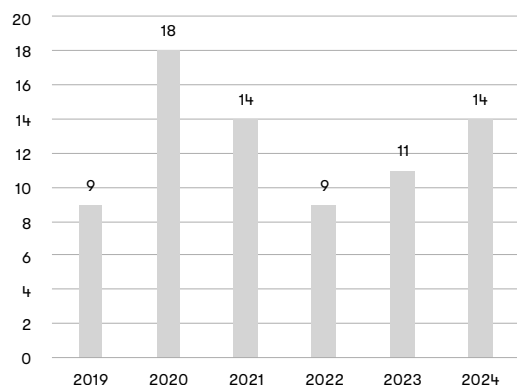
** Calculated by dividing the total number of Faculty students in the first cycle and second cycle on 1 October by the number of Faculty teaching staff on 31 December.

Graduate career success in 2024



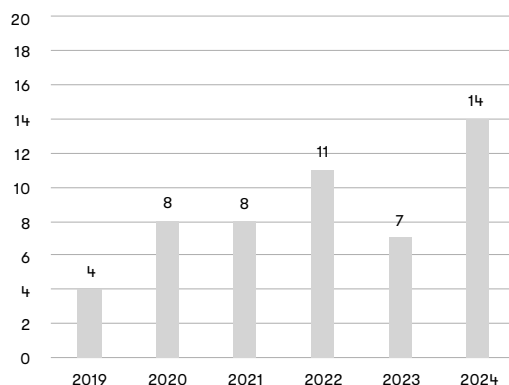
Target outcome → the level of highly qualified graduates and/or graduates continuing their studies in a higher cycle growing at least 1 per cent annually, but no lower than 60 per cent Based on the data of 1 October.

Successfully defended dissertations, 2019–2024



The total number of successfully defended dissertations during the period of 2019–2024 is 75
Based on the data of 31 December.

Number of postdoctoral trainees at the University, 2019–2024



Average number of postdoctoral trainees per year is 8.66

Based on the data of 31 December.

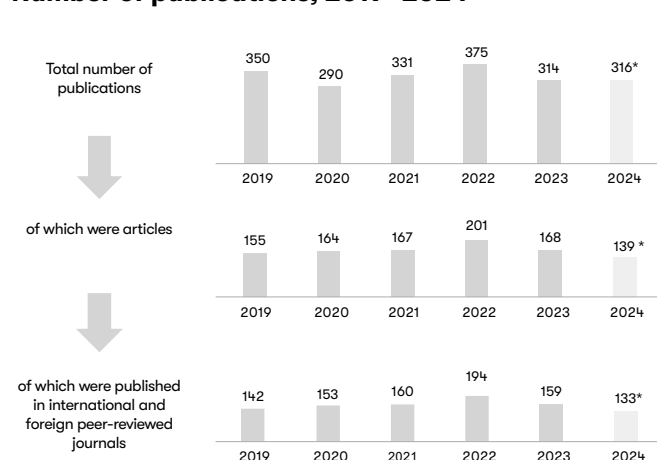
Number of patents granted in 2024

3*

* 2 of which were acquired in collaboration with other academic units.

Data of 31 December.

Number of publications, 2019–2024



* The publication figures for 2024 are based on the data of 10 February 2024 and are not exhaustive, as the registration of publications was still ongoing at that time. The publication figures for 2024 are not included in the calculations.

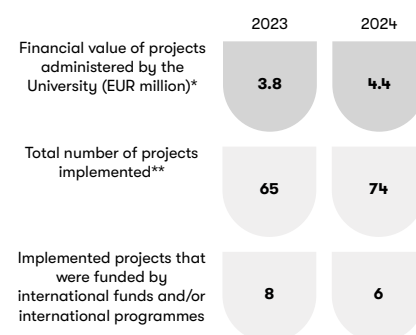
Change in 2023 compared to the average of 2019–2022

-6.68 %

-2.18 %

-2 %

Projects, 2023–2024



* The value of projects implemented in a given year is presented.

** The total number of projects include projects whose activities were in the implementation phase during the given year. In the case of internal partnership at VU, i.e. when several faculties participated in one project, the project was accounted only once and assigned only to the unit that owned the project.

Key projects in 2024

The Centre of Excellence of Advanced Light Technologies of Vilnius University

The value of the project amounts to EUR 5,500,000. The project is funded by the Ministry of Education, Science and Sport of the Republic of Lithuania/Research Council of Lithuania under the programme 'Universitetų ekselencijos iniciatyva' ('University Excellence Initiative') (Project No. S-A-UEI-23-6). Project manager – Prof. Dr Arūnas Dubietis.
The project is implemented by the Faculties of Physics, Chemistry and Geosciences, and Medicine.

Electro-Conductive Polymeric 3D Scaffolds as Novel Strategies for Biomedical Applications (ESCULAPE)

The value of the project administered by the University is EUR 156,400. The project is funded by the European Union, the Horizon Europe programme (Project No.101131147).
Project manager – Prof. Dr Almira Ramanavičienė.

The Human-Tech Nexus – Building a Safe Haven to Cope with Climate Extremes (The HuT)

The value of the project administered by the University is EUR 60,000. The project is funded by the European Union, the Horizon Europe programme (Project No. 101073957).
Project manager – Assoc. Prof. Dr Gintautas Stankūnavičius.

EAGER IMPRESS-U: Požeminio vandens atsparumo vertinimas naudojant integruotą Ukrainos duomenų tyrimą (Groundwater Resilience Assessment Through Integrated Data Exploration for Ukraine) (GRANDE-U)

The value of the project amounts to EUR 90,000. The project is funded by the Research Council of Lithuania (Project No. S-IMPRESSU-24-3). Project manager – Assist. Prof. Dr Vytautas Samalavičius.

IMPRESS-U: Two-Dimensional Nanosheets of Magnetic Lanthanide Chalcogenides (NAMALACH)

The value of the project amounts to EUR 100,000. The project is funded by the Research Council of Lithuania (Project No. S-IMPRESSU-24-7). Project manager – Prof. Dr (HP) Aivaras Kareiva.

Advanced MXene-Based Nanocomposites: Multiplex and Multimodal Biosensing Platforms for Health and Environmental Applications

The value of the project amounts to EUR 150,000. The project is funded by the Research Council of Lithuania (Project No. S-LL-24-2). Project manager – Prof. Dr Almira Ramanavičienė.