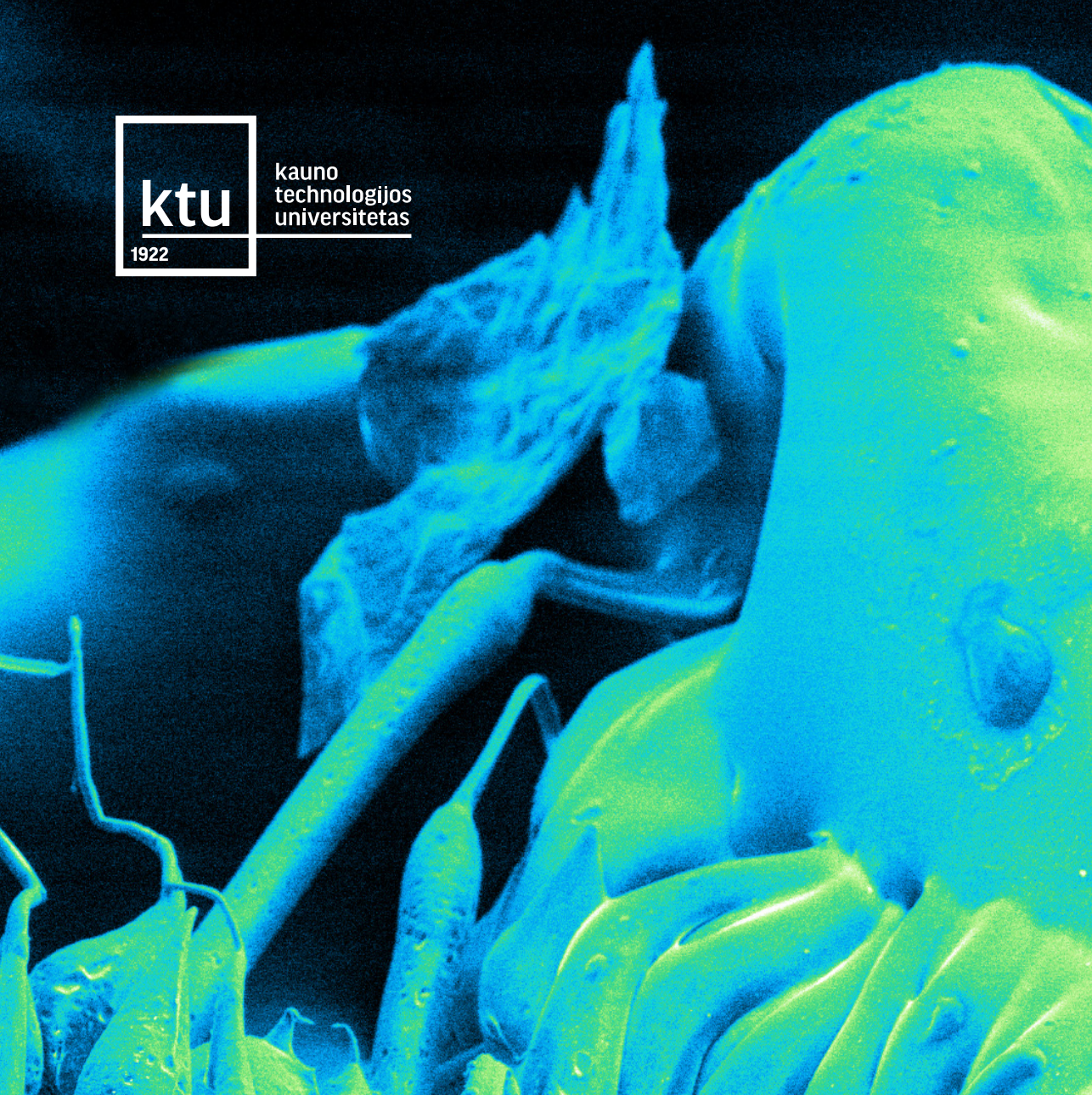




kauno  
technologijos  
universitetas



**Studies and research**

**2023**

**DOCTORAL**

## FACTS AND NUMBERS

9	Faculties
8	Research institutes
2	Integrated centres of research, studies and business („Santaka“, „Nemunas“)
128	Study programmes, 20 – for doctoral studies
~7700	Students
~340	PhD students, ~27 % international PhD students

## PRIORITIES OF KTU R&D&I ACTIVITIES

- | Transformation of industry
- | Digital transformation
- | Smart cities and resilient communities

## KTU ANNUALLY

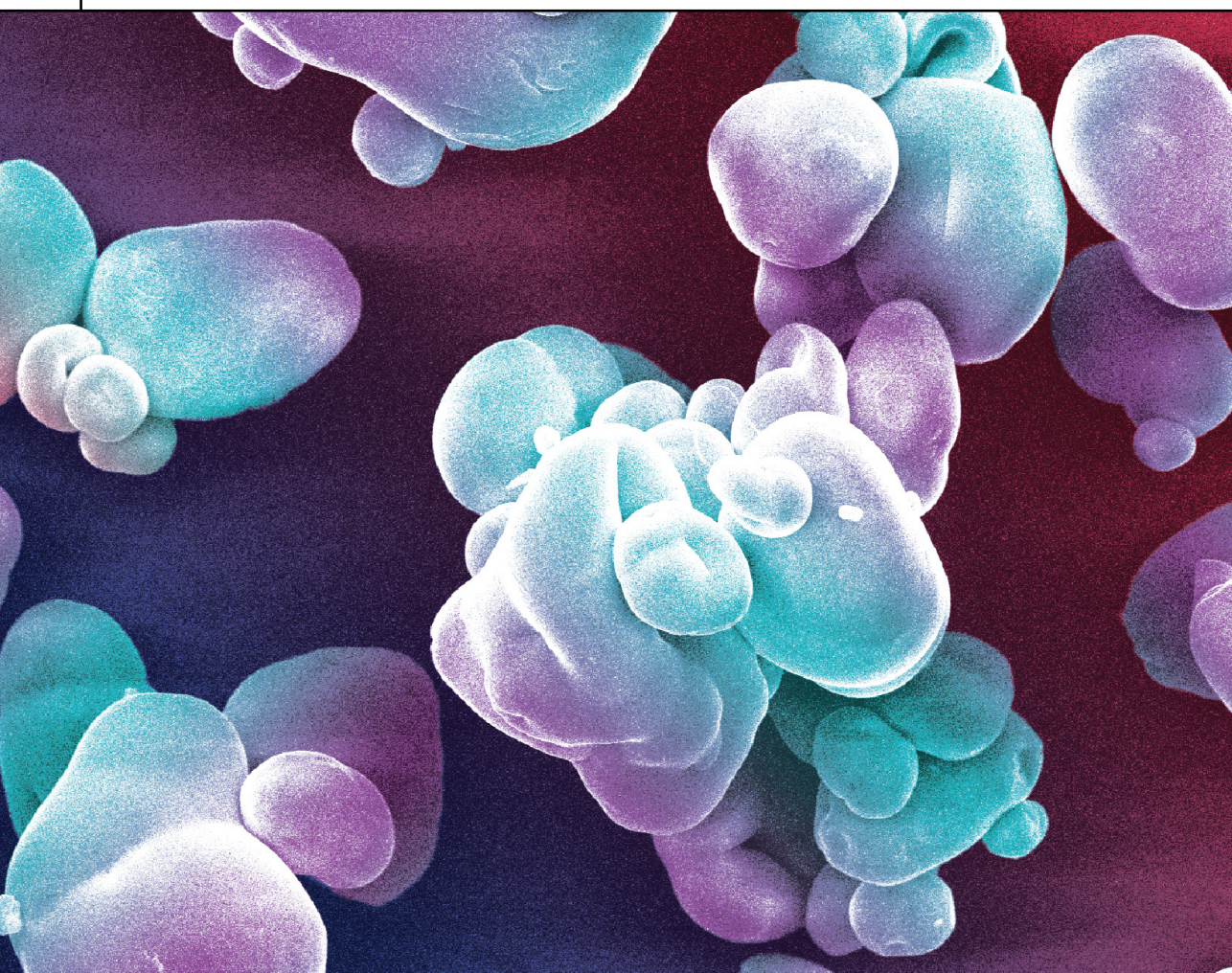
~50	Doctoral dissertation defences
~7	Start-ups
~100	Prototypes
~17	Patent applications
~60	Cooperation agreements with business



# DOCTORAL STUDIES AND RESEARCH

## BENEFITS

- | Double degree possibilities
- | Study modules for general skills development
- | Short-term and long-term internships for studies, research and practice
- | Doctor Europaeus certificate possibilities
- | Doctoral research in a high-profile research team
- | Incentives and rewards for active PhD students
- | “Start up Space” for entrepreneurs
- | KTU International PhD Summer School for core competences  
[summerschool.ktu.edu](http://summerschool.ktu.edu)



# DOCTORAL STUDIES AND RESEARCH

## Research Doctoral Studies (4 years)

### STUDIES (30 ECTS CREDITS)

- I 3-4 study modules at KTU
- I 1-2 study modules abroad

### RESEARCH AND PRESENTATION OF RESEARCH RESULTS

- I ≥ 2 international scientific conferences  
and
- I ≥ 2 scientific publications

### DOCTORAL DISSERTATION

Preparation and defence

## Doctoral Studies in Arts (4 years)

### STUDIES (≥ 40 ECTS CREDITS)

- I 4-5 study modules
- I 1-2 study modules abroad

### ARTISTIC-CREATIVE PRACTICE (≥ 80 ECTS)

### ARTISTIC RESEARCH (≥ 80 ECTS) AND PRESENTATION OF RESULTS

- I ≥ 2 scientific conferences
- I ≥ 2 publications in cultural and  
artistic or scientific journals

### ART PROJECT (CREATIVE AND RESEARCH PARTS)

Preparation and defence



# DOCTORAL STUDIES AND RESEARCH

## Scholarships and funding

### LITHUANIAN STATE SCHOLARSHIPS

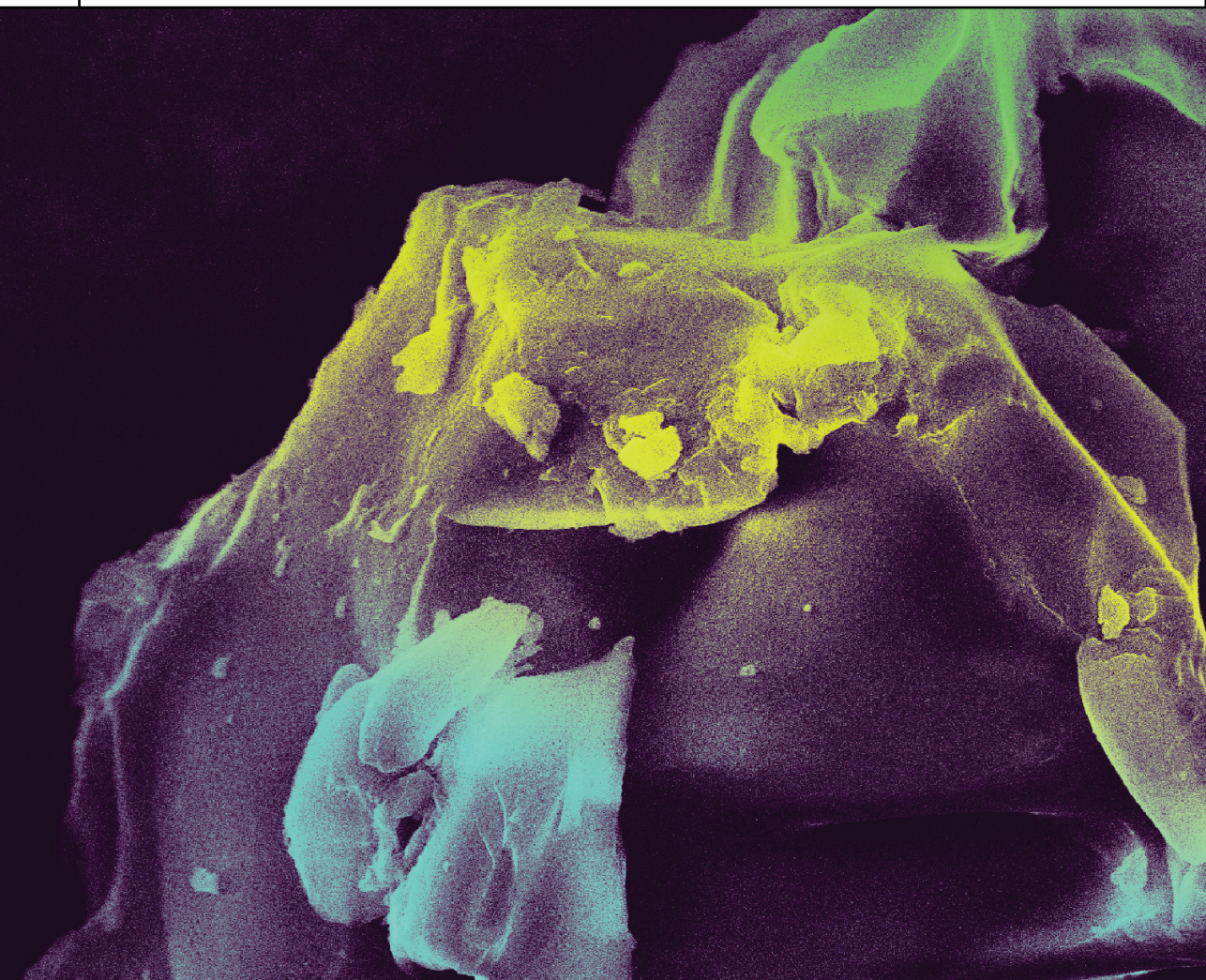
**931 Eur/month.**

1<sup>st</sup> year of studies

**1078 Eur/month**

2<sup>nd</sup> – 4<sup>th</sup> year of studies

- I Additional scholarships for excellent results
- I Grants for doctoral studies and research
- I Grants for academic mobility



# ADMISSION

## 1<sup>st</sup> STEP

### ACADEMIC RECOGNITION

#### Documents for academic recognition:

- | The application for the recognition of qualification
- | A copy of the applicant's identity document
- | The bachelor's diploma and diploma supplement
- | The master's diploma and diploma supplement

## 2<sup>nd</sup> STEP

### APPLICATION

#### Documents for admission:

- | Online application
- | Officially legalised Bachelor's and Master's Diplomas or equivalent higher education degree and Diploma Supplements
- | Two references by two academic referees or researchers in the science field
- | List of candidate's publications and their copies
- | Research proposal on the selected topic (if required for a certain programme)
- | Curriculum Vitae
- | Proof of English language proficiency
- | Copy of the passport page with personal details
- | Copy of an application fee payment
- | Other documents if required

## 3<sup>rd</sup> STEP

### MOTIVATIONAL INTERVIEWS

## 5<sup>th</sup> STEP

### START OF STUDIES

## 4<sup>th</sup> STEP

### LEARNING AGREEMENT

For admission dates and deadlines, and exact list of mandatory documents please visit [admissions.ktu.edu/phd/](https://admissions.ktu.edu/phd/)

# DOCTORAL STUDIES AND RESEARCH

**19 fields of science**

**1 field of arts**

## Technological sciences

### ELECTRICAL AND ELECTRONICS ENGINEERING

Double degree programme with the University of Bologna, Italy

#### CORE RESEARCH THEMES:

- I Signal processing
- I Electronics
- I Electrical engineering
- I Automation, robotics, control engineering

### CIVIL ENGINEERING

Double degree programme with the University of Bologna, Italy

#### CORE RESEARCH THEMES:

- I Construction
- I Material technology

### TRANSPORT ENGINEERING

#### CORE RESEARCH THEMES:

- I Air transport technology
- I Military science and technology

# DOCTORAL STUDIES AND RESEARCH

## Technological sciences

### ENVIRONMENTAL ENGINEERING

Double degree programme with the University of Bologna, Italy

#### CORE RESEARCH THEMES:

- I Environmental technology, pollution control

### CHEMICAL ENGINEERING

Double degree programme with the Technical University of Košice, Slovakia

Double degree programme with the University of Bologna, Italy

#### CORE RESEARCH THEMES:

- I Chemical technology and engineering
- I Polymer technology, biopolymers
- I Food and drink technology
- I Biotechnology
- I Other products technology

### ENERGETICS AND POWER ENGINEERING

#### CORE RESEARCH THEMES:

- I Energy research
- I Thermal engineering, applied thermodynamics

### INFORMATICS ENGINEERING

Double degree programme with the University of Bologna, Italy

#### CORE RESEARCH THEMES:

- I Image processing
- I Systems engineering, computer technology
- I Automation, robotics, control engineering



# DOCTORAL STUDIES AND RESEARCH

## Technological sciences

### MATERIALS ENGINEERING

Double degree programme with the University of Bologna, Italy

#### CORE RESEARCH THEMES:

- I Materials technology
- I Optical materials
- I Composite materials
- I Polymer technology, biopolymers
- I Textiles technology
- I Coatings and surface technology

### MECHANICAL ENGINEERING

#### CORE RESEARCH THEMES:

- I Mechanical engineering, hydraulics, vacuum technology, vibrations and acoustic engineering
- I Production technology
- I Automation, robotics, control engineering

### MEASUREMENT ENGINEERING

Double degree programme with the University of Bologna, Italy

#### CORE RESEARCH THEMES:

- I Instrumentation technology
- I Medical technology

# DOCTORAL STUDIES AND RESEARCH

## Natural sciences

### PHYSICS

Joint degree programme with the University of Southern Denmark, Denmark;

Double degree programme with Al-Farabi Kazakh National University, Kazakhstan

#### CORE RESEARCH THEMES:

- I Condensed matter
- I Physical chemistry
- I Semiconductor physics
- I Metrology, physics devices

### CHEMISTRY

#### CORE RESEARCH THEMES:

- I Environmental chemistry
- I Macromolecular chemistry
- I Organic chemistry
- I Electrochemistry

### INFORMATICS

#### CORE RESEARCH THEMES:

- I Artificial intelligence
- I Computer science, numerical analysis, systems, control
- I Informatics, systems theory



# DOCTORAL STUDIES AND RESEARCH

## Social sciences

### POLITICAL SCIENCE

#### CORE RESEARCH THEMES:

- I Democracy and governance

### SOCIOLOGY

#### CORE RESEARCH THEMES:

- I Civil society and sustainable development

### ECONOMICS

#### CORE RESEARCH THEMES:

- I International economic relations
- I Economics, econometrics, economic theory, system, politics,
- I Economics of development
- I Commercial and industrial economy
- I Financial science

## Humanities

### HISTORY AND THEORY OF ARTS

#### CORE RESEARCH THEMES:

- I Musicology
- I Architecture

### MANAGEMENT

Double degree programme with  
the University of Bologna, Italy

#### CORE RESEARCH THEMES:

- I Market study
- I Management of enterprises
- I Organisational science

### EDUCATION

#### CORE RESEARCH THEMES:

- I Pedagogy and didactics

## Visual Arts

### ARCHITECTURE

#### CORE RESEARCH THEMES:

- I Architecture



## **KTU DOCTORAL SCHOOL**

+370 608 15 609

+370 626 22 701

+370 608 13 726

phd@ktu.lt

[admissions.ktu.edu/phd/](https://admissions.ktu.edu/phd/)

