



# Doctoral Studies



## Materials Engineering 4 years

KTU Materials Engineering PhD students develop advanced modern materials, study their properties and apply them in various industrial and business fields. Materials Engineering PhDs study nanotechnologies, new biological, functional and composite materials, and energy-efficient solutions to increase material efficiency

and reduce environmental impact. Doctoral students address the challenges of sustainability, materials recycling and innovative manufacturing technologies. The programme is characterised by its interdisciplinary approach and its focus on research of global significance.

### RELEVANCE

Materials engineering is the key to innovation in industries that require durable, lightweight and efficient materials. Research in this field helps to develop solutions for extreme working conditions in areas such as aerospace, energy and healthcare. KTU's PhD in Materials Engineering focuses on the development of new, multifunctional materials that contribute to technological progress and solve global challenges.

### CAREER OPPORTUNITIES

Graduates with a PhD in Materials Engineering have the opportunity to work in research and technology development areas where new materials are developed to meet the specific needs of industry and business. Young researchers often choose careers in both research institutes and innovative companies.

### MAIN RESEARCH AREAS

- | Materials technology
- | Optical materials
- | Composite materials
- | Coatings and surface technology
- | Laser technology
- | Polymer technology, biopolymers
- | Textile technology



**MORE ON DOCTORAL STUDIES  
IN MATHEMATICS**



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## FINANCIAL BENEFITS

- | Scholarships from €1,406 per month
- | Up to €2,500 for study and research
- | Up to €2,500 to present research results at international conferences
- | Erasmus+ funded research at institutions abroad for up to 1 year
- | Up to €2,200 per year from the Research Council of Lithuania for participation in events abroad
- | Up to €900 per year as a one-off KTU scholarship for high academic achievement and scientific activity
- | Up to €7,104 per year Research Council of Lithuania scholarship for academic achievement

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## MAIN BENEFITS

- | Possibility of a double degree with the University of Bologna (Italy)
- | Possibility to obtain a European PhD certificate together with your diploma through the Physics and Chemistry Network for Advanced Materials (PCAM)
- | University-funded development of skills such as science communication, project management, research ethics and others
- | Paid project activities

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## ADDITIONAL BENEFITS

- | Opportunities to gain teaching experience
- | Presentation of research results in science dissemination activities
- | Paid contracts with industry



**ADMISSION REQUIREMENTS**

