



Doctoral (PhD) Studies

2025

Physics 4 years

Doctoral studies with the University of Southern Denmark (Denmark)

A PhD in Physics is for those who want to study the complex laws of nature and contribute to the latest scientific discoveries and developments in the field. This doctoral programme provides

in-depth theoretical knowledge and practical skills in the areas of condensed matter, radiation interactions with materials and optical spectroscopy.

RELEVANCE

KTU PhD students work with cutting-edge technologies and research methods, including electron lithography, reactive plasma etching, spectroscopic ellipsometry and spectroscopy of ultrafast processes. Their research focuses on practical applications, developing innovative technologies for biosensors, plasmonics, renewable energy and other high-technology areas. In addition to contributing to the development of fundamental science, this programme directly shapes innovations that impact industry and society.

CAREER OPPORTUNITIES

Doctoral Studies in Physics at KTU offer a unique opportunity to collaborate with academic and non-academic partners and to work with state-of-the-art research systems. Graduates become researchers capable of conducting independent research and developing solutions that contribute to technological progress. It opens a wide range of career prospects, from academic positions to managerial roles in industry.

MAIN RESEARCH AREAS

- | Condensed materials: structure, thermal and mechanical properties, crystallography, phase equilibria
- | Semiconductor physics

- | Condensed matter: electronic structure, electrical, magnetic and optical properties, superconductors, magnetic resonance, relaxation, spectroscopy

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FINANCIAL BENEFITS

- | Scholarships from €1,330 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 €2,100 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 €6,720 per year Research Council of Lithuania scholarship for academic achievement

KEY BENEFITS

- | Possibility of obtaining 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

ADDITIONAL BENEFITS

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

[ADMISSION REQUIREMENTS](#)

[DATES AND DEADLINES](#)

