Research & Doctoral Research Training

Besides obtaining a doctorate/PhD through independent research in the departments and under supervision of a university professor, TU Kaiserslautern offers structured PhD programs, Graduate Schools, and Research Training Groups.

> **i**
> For more information on research opportunities:
> www.uni-kl.de/en/research
> www.uni-kl.de/international/phd
> Contact for support: info@isgs.uni-kl.de

Structured PhD Programs

Computer Science
www.cs.uni-kl.de/en/studium/prom

Graduate Schools

Mathematics as a Key Technology
www.mathematik.uni-kl.de/en/organisation/graduate-school

Commercial Vehicle Technology
www.uni-kl.de/cvt

Profile Areas

Advanced Materials Engineering (AME)
https://www.uni-kl.de/ame/

Complex Data Analysis in Life Sciences & Biotechnology (BioComp)
https://www.uni-kl.de/biocomp/

State Research Center for Optics & Materials Sciences (OPTIMAS)
https://optimas.uni-kl.de

Network for the Promotion of Early Career Scientists (TU-Nachwuchsring)

https://nachwuchsring.uni-kl.de

High Performance Center Simulation and Software Based Innovation

https://www.leistungszentrum-simulation-software.de/en.html

DFG* - Research Training Groups

IRTG 2732: **Molecular Mechanisms to Preserve the Functionality of Membranes and Compartments during Stress Conditions**

IRTG 2057: **Physical Modeling for Virtual Manufacturing Systems and Processes**

www.uni-kl.de/en/forschung/koordinierte-forschung/dfg-graduier-tenkollegs

DFG* - Collaborative Research Centers

SFB/TRR 88: **Cooperative Effects in Homo- and Heterometallic Complexes (3MET)**

SFB 926: **Component Surfaces: Morphology on a micro scale**

SFB/TRR 175: **The Green Hub**

SFB/TRR 185: **Open System Control of Atomic & Photonic Matter (OSCAR)**

SFB/TRR 173: **Spin+X - Spin in Its Collective Environment**

SFB/TRR 195: **Symbolic Tools in Mathematics & Their Application**

https://www.uni-kl.de/en/forschung/koordinierte-forschung/sonderforschungsberei-che

Projects funded by European Programs

ERC Grants

Integrated Projects (IP)

Marie-Curie Grants
www.uni-kl.de/en/forschung/koordinierte-forschung/eu-finanzierte-kooperations-projekte

*DFG: Deutsche Forschungsgemeinschaft (German Research Foundation)

Services for international graduate students & researchers

The university has set up a cross-faculty structure to support internationalization and to coordinate projects and high-ranking (post)graduate programs.

Department of International Affairs: ISGS

As a one-stop office for international graduate and doctoral students, the ISGS provides a broad range of highly pro-fessionalized services for incoming European as well as third-country postgraduates and young researchers:

- Effective pre-departure communication
- Arrangements for accomodation and arrival
- Support and guidance in administrative issues
- Language & orientation courses
- Social and family services
- Social events (excursions, hiking tours, festivities)
- Extra-curricular courses
- Professional-skills workshops
- Industrial visits
- Career services
- Networking events
- Graduation Ceremony

Publisher
Department of International Affairs: ISGS

Contact
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✉ info@isgs.uni-kl.de
🌐 www.uni-kl.de/international

DEPARTMENT OF INTERNATIONAL AFFAIRS: ISGS

STUDIES RESEARCH LIVING

isgs www.uni-kl.de
>international

TECHNISCHE UNIVERSITÄT KAISERSLAUTERN

Technische Universität Kaiserslautern

TUK is a research-oriented university offering high-quality education and (post)doctoral research training in innovative fields of economic relevance. Our favorable student-teacher ratio guarantees excellent supervision and a fast track towards employability. In addition to being the nucleus of the *Science and Innovation Alliance Kaiserslautern*, a consortium of twelve high-profile science institutions close to campus, the university is strongly linked to national and international industries.

> ℹ️ Choose your undergraduate study program on:
> *www.uni-kl.de/international/bachelor*
> Contact for support: studium@uni-kl.de

Departments:
- Architecture
- Biology
- Business and Economics
- Chemistry
- Civil Engineering
- Computer Science
- Electrical & Computer Engineering
- Mathematics
- Mechanical & Process Engineering
- Physics
- Social Sciences
- Spatial & Environmental Planning

SNAPSHOT 2021

14.549	students enrolled
3.263	international students
111	study courses (bachelor, master, diploma, PhD)
17	international study programs
208	professorships (2020)
925	academic & scientific staff (approx.,2020)
€ 136,3	Mio. € budget (~70% state financed) (2019)
€ 72,7	Mio.€ external third-party-funds (2019)

International Master Programs

Biology
- Master of Science Biology
  (specializing in Microbial & Plant Biotechnology, Molecular Cell Biology, Neurobiology, Ecology)

Computer Science
- Master in Computer Science

Electrical & Computer Engineering
- Master in Electrical & Computer Engineering
- European Master in Embedded Computing Systems
- Master Embedded Computing Systems
- Master Automation and Control

Mathematics
- Master Mathematics
- Master Mathematics International
- Master Technomathematics
- Master Economathematics
- Master Actuarial & Financial Mathematics

Social Sciences
- Master Cognitive Science

Interdisciplinary M.Sc. Program
- Commercial Vehicle Technology CVT

Physics
- Master Advanced Quantum Physics

> ℹ️ More information on international master programs:
> *www.uni-kl.de/international/master*
> Contact for support: info@isgs.uni-kl.de

Postgraduate Distance Studies

The Distance & Independent Study Center (DISC) offers study programs in the fields of:
- ☑ Human Ressources
- ☑ Management & Law
- ☑ Science & Engineering

www.zfuw.uni-kl.de/

Kaiserslautern
Your future starts here!

Technische Universität Kaiserslautern has built a reputation for excellence in several disciplines which has therefore attracted international attention. For example, there are four major institutes working in the area of applied mathematics and computer sciences.

These include: two Fraunhofer Institutes (the Fraunhofer Institute for Industrial Mathematics (ITWM) and the Fraunhofer Institute for Experimental Software Engineering (IESE), the German Research Center for Artificial Intelligence (DFKI), and the Max Planck Institute for Software Systems. Other satellite institutes include: the Institute for Surface and Film Analysis (IFOS) in the field of physics, laser physics, and materials research; as well as the Institute for Composites (IVW), which conducts research in the areas of mechanical engineering, composite materials, and process engineering.

In January 2010, the university became a double winner when it was selected as one of five world-class research clusters by the German Federal Ministry of Education and Research (BMBF) - the other four being its team partners Fraunhofer IESE and ITWM, DFKI, and ITA.

Moreover, Kaiserslautern is recognized as one of the largest IT clusters in all of Europe.

Even emperor Friedrich I. Barbarossa was convinced of the advantages of the Kaiserslautern region when he chose this location to build his imperial palace in the 12th century. Based on these historical roots, the city has developed into an industrial region in the 1960s and has now transformed into a modern, cosmopolitan cluster of science and technology situated in a prime location for national and international companies.

There is no such thing as being a foreigner here- Kaiserslautern is home to people from over 140 different nations, contributing to a diverse and vibrant city life. As a global village, Kaiserslautern cultivates friendly relationships with numerous cities from European countries and bonds overseas to the USA as well as Japan. Most of the approx. 100,000 inhabitants speak English, which makes it easy to feel at home.

www.uni-kl.de

KAISERSLAUTERN
In the heart of Europe

Berlin	2h	✈
Frankfurt	1h	🚆
Munich	4h	🚆
Paris	2h	🚆

The Science & Innovation Alliance Kaiserslautern forms a highly specialized multidisciplinary network that provides scientists and cooperation partners from industry, economy and administration with innovative solutions based on the newest technologies and methods available.

- Technische Universität Kaiserslautern
  www.uni-kl.de
- University of Applied Sciences - Hochschule Kaiserslautern
  www.hs-kl.de
- Fraunhofer Institute for Experimental Software Engineering (IESE)
  www.iese.fraunhofer.de
- Fraunhofer Institute for Industrial Mathematics (ITWM)
  www.itwm.fraunhofer.de
- German Research Center for Artificial Intelligence (DFKI)
  www.dfki.de
- Max Planck Institute for Software Systems (MPI SWS)
  www.mpi-sws.org
- Institute for Composite Materials (IVW) GmbH
  www.ivw.uni-kl.de
- Institute for Surface and Thin Film Analysis (IFOS) GmbH
  www.ifos.uni-kl.de
- Research Institute for Technology and Work (ITA) e.V.
  www.ita-kl.de
- Institute of Biotechnology and Drug Research (IBWF)
  www.ibwf.de
- Westpfalz-Klinikum GmbH (WKK)
  www.westpfalz-klinikum.de

more on: *www.science-alliance.de*