University of Rostock

Founded in 1419, the University of Rostock is the oldest university in the Baltic Sea region and the third oldest in Germany. Under the motto „Traditio et Innovatio", it combines maritime and Hanseatic traditions with cutting-edge research and teaching. There are 290 professorships, 5,800 employees and 12,700 students from 90 different nationalities in 9 faculties, central facilities and university clinics.

Faculty of Computer Science and Electrical Engineering (IEF)

The University of Rostock was the first classical university in Germany, which in 1950 extended its profile to a technical faculty. The IEF continues the engineering traditions and combines the fields of electrical engineering since 1953, business informatics since 1966 and computer science since 1969. At eight institutes with a total of 35 professors and about 300 employees, about 1,400 students from 55 countries are enrolled.

Offers for Study Orientation

- Long Night of Sciences (in Rostock)
- University-Information-Day (in Rostock)
- Uni-/IEF-Visit-Day (visit for pupils at IEF in Rostock)
- Kick Me To Science (Workshops in Rostock / at schools)
- Technical & Engineering Summer School (in Rostock)
- „Youth researches"-Pupil-Groups (at IEF in Rostock)
- Internships for pupils (at IEF in Rostock)
- Junior Study: study as a pupil
- Nationwide Robotics Competition Formel SPURT
- State Olympics Computer Science MV
- Information at trade fairs for study orientation
- Student ambassadors inform schools
- Rent-a-Professional (Lecture in the school)
- Lectures and information stands (at schools)

University of Rostock

Universität Rostock Traditio et Innovatio

University of Rostock

FACULTY OF COMPUTER SCIENCE AND ELECTRICAL ENGINEERING

LOCATIONS OF THE FACULTY

Electrical Engineering
Albert-Einstein-Straße 2 and 26 (Südstadt)
Richard-Wagner-Straße 31 (Warnemünde)
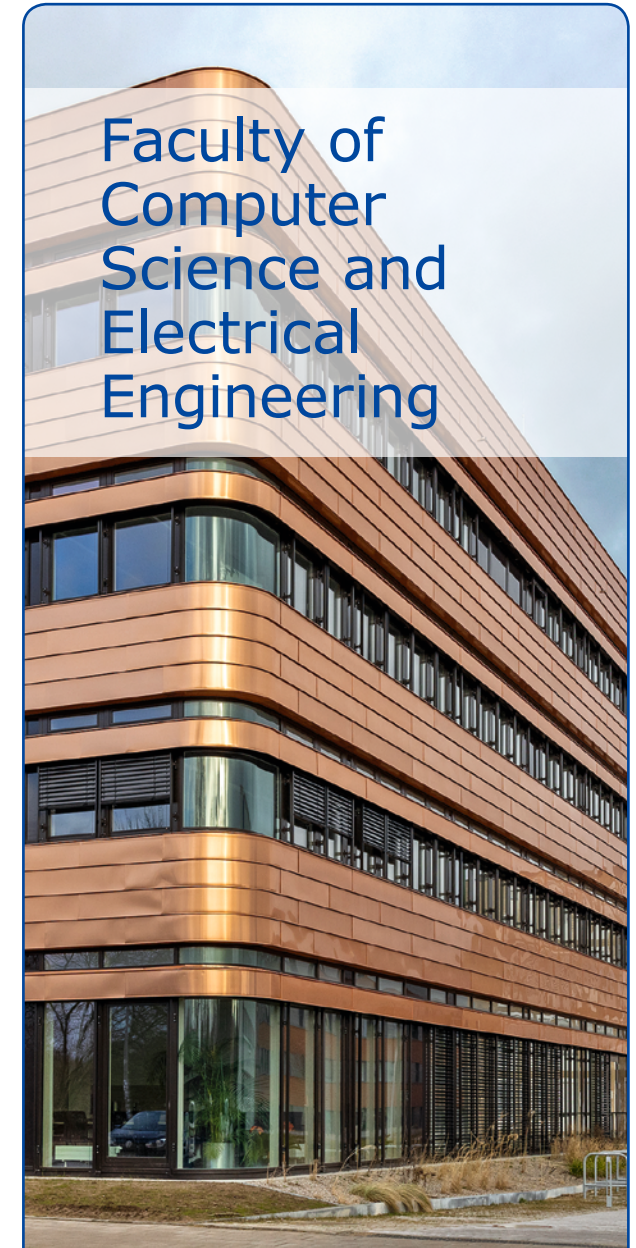**Computer Science**
Albert-Einstein-Straße 22 (Südstadt)

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Universität Rostock Traditio et Innovatio

Faculty of Computer Science and Electrical Engineering

FACULTY OF COMPUTER SCIENCE AND ELECTRICAL ENGINEERING

Study

- Study year: winter semester (October to March) and summer semester (April to September)
- Bachelor: start of studies in the winter semester
- Master: start of studies possible in the winter and in the summer semester
- courses without NC: enrollment only, Courses with NC: application required; if accepted then enrollment, both online at www.uni-rostock.de
- International: always applying via Uni-Assist, if accepted then enrollment

Courses of Study

(B) Bachelor, (M) Master, (S) First State Examina

- Electrical Engineering (B, M)
- Information Technology/Technical Computer Science (B, M)
- Medical Information Technology (B, M)
- Computer Science (B, M,)
- Business Informatics (B, M)
- Computational Science and Engineering (M, in English)
- Electrical Engineering (M, in English)
- Computer Science International (M, in English)
- Visual Computing (M)
- Computer Science for teaching at Secondary Schools (S)
- Computer Science for teaching at Regional Schools (S)

Courses of Study with IEF Participation (selection)

- Teaching Profession Education (B, M)
  with first subjects Electrical Engineering or Information Technology and second subject Computer Science
- Teaching Business Education (B, M)
  with Second Subject: Computer Science
- Industrial Engineering (B, M)
  with area Electrical Engineering with 3 specializations
- Mechatronics (B, M)

Support Offers for Students

- Mentoring of students for students at the start of studies
- Individual part-time study
- Internships in Germany and abroad
- Semester abroad
- Thesis abroad
- International student exchange

Further Education for Students (selection)

- Certificate Course SAP for students (6 Credit Points)
- JUAS – Joint Universities Accelerator School (two courses, 10 Credit Points each)

Part Time Certificate Courses (selection)

- Courses for instructors of network academies

Further Education for Teachers

(in the state of MV recognized as training for teachers)

- ILTiS – Computer Science Teacher Day in the Südstadt
- HILF! – Autumn computer science teacher training
- State meeting of the computer science teachers in MV
- Courses for teachers in the SPURT lab

Research and PhD

The IEF conducts elite research at the highest stage. Many projects are financed by external funds and involve students early. A DFG Collaborative Research Center with integrated PhD Research Training Group, an ERC Synergy-Project, a BMBF Center for Innovation Competence, three Steinbeis Transfer Centers, a Research and Innovation Center, an Application Center and numerous basic and industry-related projects open wide possibilities for further research and graduation as PhD. The IEF organizes many recognized national and international events.

Research Focus

- modeling and simulation: system biology / medicine, company and knowledge modeling, simulation of complex technical systems and networks
- human centered engineering: life science engineering, assistive systems, visual analytics and visual computing, medical technology
- technologies: embedded systems (cyberphysical systems), reliability of electronic systems, micro- and nano-technologies, sensors (for medical applications)
- system engineering: maritime systems, robotics and automation, electrical energy technology and renewable energies, information and communication technology
- software engineering: human centered software engineering, service-oriented architectures and efficient middleware, web-based services, modeling languages and algorithm development

Participation in Central Academic Institutions of the University and University-related Institutions

- Interdisciplinary Faculty of the University of Rostock
- Fraunhofer-Institute for graphic data processing
- Center for Life Science Automation (CELISCA)
- Application Center Regulation Technology
- Competence Center for Flow Machines
- 3 Steinbeis Transfer Centers
- Research Organization IuK

Cooperations and Spin-offs

IEF works with numerous universities, research institutions and industrial companies worldwide. Since 1990, more than 100 engineering companies with over 1,600 jobs have been spun out of the faculty.