5 REASONS TO STUDY COMPENG AT THE RUHR-UNIVERSITY

1. Future-oriented
Computational engineers are highly sought after in both industry and research. Graduates thus have excellent job chances on the international job market.

2. Subject-spanning
The program encompasses essential courses from the fields of mechanical and civil engineering, as well mathematics and computer science. The subject-specific content is complemented with a variety of fundamental soft skills, such as communication and presentation skills.

3. Customized
After completion of the compulsory basic courses in the first two semesters, students may choose their own area of specialization by selecting the relevant courses from the curriculum (compeng.rub.de/comp-eng-programme/curriculum-2016).

4. Well-equipped
The laboratories, testing halls and computer pools at the faculty are furnished with the latest equipment. In addition, the members of the CompEng Coordination Office offer support in subject-related, organizational and personal matters.

5. Lovable
Bochum is an attractive city with a lot to offer: The numerous bars centered at the ‘Bermuda Triangle’, the alternative scene around the theatre district, the university’s own fitness center and a rich on campus cultural program, paired with numerous places to unwind and relax in nature.

COMPUTATIONAL ENGINEERING

KEY AREAS:
- Computer-aided models and finite element Analyses;
- Algorithms for solving discrete and continuous problems
- Numerical and applied linear algebra, initial & boundary value problems, Fourier analysis, optimization
- Data science for developing methods and algorithms to handle and extract knowledge from large scientific data
- High performance computing

WORKING FIELDS:
- Automotive engineering
- Aerospace engineering
- Power engineering
- Civil engineering
- Control Engineering
- Information science
- Biomedicine

REQUIRED SKILLS:
Excellent abilities in analytical and abstract thinking; basic skills in numerical mathematics and structural mechanics on a Bachelor’s level.

OFFERED PROGRAMS:
COMPEng M.Sc.

COMP ENG
COMPUTATIONAL ENGINEERING

Excellent abilities in analytical and abstract thinking; basic skills in numerical mathematics and structural mechanics on a Bachelor’s level.
REQUIREMENTS

SUBJECT-SPECIFIC REQUIREMENTS
An above average Bachelor’s (or comparable) degree in either
• Civil Engineering
• Mechanical Engineering
• or a related engineering field acquired in a four-year Bachelor’s program.

LANGUAGE REQUIREMENTS
• Completion of one’s first degree program in English, or
• TOEFL: minimum score paper-based 550, computer-based 215, internet-based 79, or
• IELTS (Academic): minimum score 6.0 (Overall Band Score).

German language skills are not required to complete the program!

COSTS
No tuition fees are charged, only the social fee (of currently about EUR 300 euros per semester), which includes free use of public transport in the state of NRW, and reduced prices for food and drinks bought on campus.

GENERAL INFO

DURATION & DEADLINES
Start of the program: Every winter term (1st October).
Duration: four semesters (2 years)
Application deadline:
• 1st November to 15th May for citizens of non-European countries.
• 1st November to 15th July for citizens of the European Union.

APPLICATION
If you are interested, please visit the following website for more info on how and where to apply:
compeng.rub.de/admission-a-application/application

IS COMPENG THE RIGHT CHOICE FOR YOU?
Check it out at:
studium.rub.de/en/master-programme-computational-engineering