

5 REASONS TO STUDY SUBSURF

AT THE RUHR-UNIVERSITY

1. Sustainability-oriented

The program focuses on the sustainable use of the subsurface. Subsurface engineers are in high demand 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 civil engineering and geosciences, as well as mathematics and applied computing. 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 semester, students choose one of the two specializations "Geotechnics and Tunneling" and "Subsurface Characterization and Utilization". Within each specialization, courses can be selected from the curriculum (subsurface.sd.rub.de) according to individual preferences.

4. Well-equipped

The laboratories, testing halls and computer pools at the faculties involved in SubSurf are equipped with the latest technology. In addition, the members of the SubSurf Coordination Office offer support in subject-related, organizational and personal matters.

5. Amiable

Bochum is an attractive and affordable 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 gym and a rich cultural program on campus, paired with numerous places to unwind and relax in nature.

SUBSURFACE ENGINEERING

KEY AREAS

- Geophysics, geology and hydrogeology
- Reservoir engineering
- Underground exploration
- Geothermal energy
- Planning, design and construction of tunnels
- Planning, design and construction of geotechnical structures
- Soil and rock behaviour and its constitutive modeling
- Computer-aided models and finite element analyses

WORKING FIELDS

- Tunnel Engineering
- Geotechnical Engineering
- Mining Engineering
- Subsurface Energy Supply
- Subsurface Mineral Resources

REQUIRED SKILLS

Excellent abilities in analytical and abstract thinking; basic skills in geotechnical engineering or geoscience on a Bachelor's level.

SUBSURF

SUBSURFACE ENGINEERING

OFFERED PROGRAM:

SUBSURF M.SC.

REQUIREMENTS

SUBJECT-SPECIFIC REQUIREMENTS

An above average Bachelor's (or comparable) degree in either

- Civil Engineering
- Geoscience
- or a related engineering field

acquired in a three-year Bachelor's program with minimum 180 ECTS.

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 350 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

Please send your application via e-mail to:

Dr.-Ing. Felipe Prada

E-mail: subsurf@rub.de

MORE INFORMATION

You can find more information on the study program website:

subsurface.sd.rub.de



SHOULD YOU STUDY SUBSURF?

Find out and ask our study advisor your final questions:

Dr.-Ing. Felipe Prada

E-mail: subsurf@rub.de

CONTACT

RUHR-UNIVERSITY BOCHUM

FACULTY OF CIVIL AND ENVIRONMENTAL ENGINEERING

FACULTY OF GEOSCIENCES

SUBSURF STUDENT COUNSELING | IC-5/111

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