Overview of the Degree Program

✔ Degree
  Master of Science (M.Sc.)

✔ Regular Program Length
  4 semester (full-time program)

✔ Credit Points (ECTS)
  120 credit points

✔ Language of Instructions
  English

✔ Admission Requirements
  » a completed bachelor’s or equivalent degree in engineering such as civil engineering, environmental engineering, chemical or bio engineering or in natural sciences such as geology, environmental sciences or geosciences or a bachelor’s degree in a related field with the same topics
  » necessary minimum requirements in
    › advanced mathematics, minimum of 12 credit points
    › science and/or engineering fundamentals such as physics, chemistry, biology, mechanics or thermodynamics, minimum of 12 credit points
    › engineering and/or natural sciences such as water management, hydraulic engineering, hydrology, urban water management, hydromechanics, water treatment, hydrogeology, engineering geology, geophysics, physical geography, soil science, environmental systems sciences, climatology and/or hydrometeorology, minimum of 12 credit points
  » interview necessary
  » proof of sufficient knowledge of English of at least B2 level

Details are found in the current admission regulations.

✔ Limited Capacity
  yes

✔ Application Deadline
  June 15 / November 30 for the 1st semester

Questions?

If you have general questions about the degree program, studying at KIT or the application process:
Beate Kühn, your student advisor at ZSB:
beate.kuehn@kit.edu

If you have specific questions concerning the curriculum of the degree program:
Dr. Jan Wienhöfer, your academic advisor at the KIT Department of Civil Engineering, Geo and Environmental Sciences: jan.wienhoefer@kit.edu

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Career Prospects

In line with the broad field of activities, water engineers are sought-after specialists with excellent career prospects. Graduates with a master’s degree can be found in leading positions in various industries: engineering offices, industrial companies, public administration, development cooperation, or research and development. Water engineers analyze, design, plan, calculate, build and manage to meet current and future challenges in the water sector and to find solutions. They mainly deal with concepts and installations in the fields of environmental protection, resource management and disaster prevention, for example irrigation and drainage systems, wastewater treatment, drinking water production, flood protection, and many others. The master’s degree also lays the foundation for a subsequent doctorate.

Characteristic Features of the Degree Program at KIT

- Future-oriented engineering program
- Carefully balanced combination of lectures, tutorials and internships
- Training in data analysis and numerical modeling using common programming languages
- Study work in small, well-supervised groups
- Large percentage of practical experience (exercises, project work)
- Research-oriented teaching through active involvement in research and engineering projects
- Integration in the EUCOR university alliance offers participation in classes at the universities in Freiburg, Basel, Strasbourg, Colmar and Mulhouse
- Campus close to the city

Program Structure

1st to 3rd semester

- Advanced Studies:
  - Modules in Advanced Fundamentals (27 LP)
  - Modules in the subject Cross-Cutting Methods and Competencies (12 LP)
- Profile studies:
  - Modules in the chosen module (24 LP)
  - Subject-specific modules (12 LP)

4th semester

- Advanced Studies (optional)
- Master thesis (30 CP)
- Additional studies (30 LP)