

## Applications / Deadlines / Starting Date

All general information regarding applications for the English-taught Master's degree in Sustainable Engineering of Infrastructure can be found on the official website of the University of Applied Sciences Erfurt.

**Application period:** 15 October – 15 December

Applicants with international qualifications have to apply through Uni Assist e.V. Please use the following link:  
<http://www.uni-assist.de/bewerben/online-bewerben/>

Applicants with German qualifications should apply on the FH Erfurt homepage:  
[www.fh-erfurt.de/fhe/studieninteressierte/bewerbung-co/](http://www.fh-erfurt.de/fhe/studieninteressierte/bewerbung-co/)

### Checklist for applicants

- Bachelor's degree in Civil Engineering with above-average exam results (equivalent to German grade 2 or better) and a workload of at least 210 credits (CP) or equivalent
- Proof of good English language skills

Native language	Required English language qualifications
German	Level B2 of the Common European Framework of Reference for Languages (CEFR)
English / English-taught Bachelor's or Diploma program	No certificate necessary. Only confirmation of English as the language of instruction in the undergraduate degree.
Other	IELTS Academic (band 6.0) TOEFL (CBT ▶ 213, IBT ▶ 79, PBT ▶ 550 points) Cambridge Certificate in Advanced English, Grade C

- Grade average of Bachelor's degree and submission of an exposé on the Bachelor's thesis comprising a maximum of 7,500 characters (including spaces) for the selection procedure

The **starting date** of the degree program is the beginning of every summer semester (1 April).

## Academic Advisory Service

Erfurt University of Applied Sciences  
Faculty of Civil Engineering and Conservation/Restoration  
Department of Civil Engineering

**Visitors' address:** Altonaer Straße 25, 99085 Erfurt  
**Phone:** 0361 6700-901 **Fax:** 0361 6700-902  
**Email:** dekanatb@fh-erfurt.de

**Internet:** [www.fh-erfurt.de/bau](http://www.fh-erfurt.de/bau)

## Student Advisory Service

The Student Advisory Service of the University of Applied Sciences Erfurt will be happy to answer any general questions regarding the degree program and admissions procedure:

**Phone:** 0361 6700-834  
**Fax:** 0361 6700-140  
**Email:** [beratung@fh-erfurt.de](mailto:beratung@fh-erfurt.de)  
**Visitors' address:** Altonaer Straße 25, Building 6, Room 6.E.60, 99085 Erfurt  
**Postal address:** PF 45 01 55, 99051 Erfurt

**Internet:** <https://www.fh-erfurt.de/fhe/en/prospective-students/advisory-services/student-advisory-service/>

## DAAD

International students can apply to various organizations for a scholarship. For more information, see:  
<https://www.daad.de/en/study-and-research-in-germany/scholarships/>

## BAföG

German and EU students may be eligible to apply for state funding through

**Studierendenwerk Thüringen** (Thuringian Student Services)  
Office for Educational Funding, Service Office  
**Visitors' address:** Nordhäuser Straße 63, 99089 Erfurt  
**Postal address:** PF 80 02 43, 99028 Erfurt  
**Phone:** 0361 73718-72  
**Email:** [f@stw-thueringen.de](mailto:f@stw-thueringen.de)  
**Internet:** [www.stw-thueringen.de](http://www.stw-thueringen.de)

## Student Accommodation

To find a place in a hall of residence, please make early contact with the Studierendenwerk Thüringen (Thuringian Student Services). Thuringian Student Services provides accommodation in a variety of student halls in Erfurt. For further information, see:  
<https://www.stw-thueringen.de/en/housing/residential-homes.html>  
Applications for rooms in halls of residence should be made online:  
<https://www.stw-thueringen.de/en/housing/application/>

## Family-Friendly University

The University of Applied Sciences Erfurt strives to make studying as family-friendly as possible. If you have any questions, please contact the



**Coordination Office for Equal Opportunities and Families**  
**Phone:** 0361 6700-712  
**Email:** [familie@fh-erfurt.de](mailto:familie@fh-erfurt.de)

Course Information

Sustainable Engineering of  
Urban Infrastructure  
Master of Engineering

## Target Group and Objectives

The practically-oriented international Master's program **Sustainable Engineering of Infrastructure** at the University of Applied Sciences Erfurt builds on a 7-semester Bachelor's degree in Civil Engineering and leads to a second professional and academic qualification after the standard 3 semesters of study. Graduates are awarded a **Master of Engineering (M.Eng.)** degree, which qualifies them to continue with doctoral studies or enter higher levels of public service.

Upon completion of their degree, our graduates are equipped with the wide-ranging professional expertise and specific technical skills required to solve complex problems in civil engineering. They are qualified to undertake independent work in construction companies, consultancies, research or public service. Furthermore, they can make independent decisions based on technical, ecological and economic considerations and carry out consulting work, planning and research in an international context.

Particularly motivated students are given the option of an additional semester, during which they can further their academic work in a research institute or an engineering placement. The Faculty of Civil Engineering at the University of Applied Sciences Erfurt offers students the opportunity to do their academic placement in a variety of research fields.

## Course Structure

Practical Specialization	<b>1st Semester (summer term)</b> <i>Core Studies</i>
	BIM and Digital Project Management
	Pavement Maintenance
	Numerics
	Construction Economics and international Project Management
	Natural Resources - Depletion and Projection
	Elective lecture 1
	<b>2nd Semester (winter term)</b> <i>Specialization</i>
	Geodesign
	Ground Improvement and Piling
	Urban Water Management
	Hydraulic Engineering in Urban Environment
	Urban Infrastructure Diagnostic and Conservation
	Elective lecture 2
	<b>3rd Semester (summer term)</b>
Communication techniques Soft Skills	
Master's Thesis	

## Course Contents

The consecutive Master's program is based on a 7-semester Bachelor's degree in Civil Engineering and imparts in-depth expertise and practical skills in civil engineering.

The degree course is divided into a total of 15 modules. As a rule, each module takes one semester to complete. In accordance with the European Credit Transfer System (ECTS), credits are allocated to each module in relation to the amount of work involved, with a workload of 30 credits per semester.

During their studies in Sustainable Engineering of Infrastructure, students further develop their knowledge and skills in the drafting, design, dimensioning, construction, inspection and operation of highways, water and wastewater pipelines, municipal watercourses and foundation engineering work. In addition, students will acquire expertise in the area of geodesign, resource planning, materials recycling and damage diagnostics. They obtain the expertise and skills required to consider the needs of society, the economy and the environment while undertaking and managing projects with a responsible and future-minded outlook. Alongside teaching hard skills and specialist knowledge, another important component of the program is the development of language and intercultural skills.

The Department of Civil Engineering at the University of Applied Sciences Erfurt has well-equipped laboratories for building diagnostics, building materials, road construction, foundation engineering and hydraulic engineering as well as a laboratory hall with facilities for building physics and construction technology. The various fields of expertise within the department give students an insight into issues that are both international and relevant to research, thus providing potential topics for Master's projects and theses.

## Career Prospects

The Master of Engineering program enables graduates to work in a wide variety of fields of construction and related industries around the world.

## Fields of Work

Our graduates are equipped to work in engineering and construction companies, government agencies and international authorities or organizations worldwide. Potential fields of work for our graduates are:

- planning, drafting, cost calculation and management of construction projects in civil engineering and urban infrastructure
- complex engineering work in leadership positions in the sustainable planning, cost calculation, execution and management of civil engineering projects
- application of specialist knowledge of engineering theory, complex workflows and processes in research and development
- sustainable use of natural resources during the implementation of construction processes and projects

