



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Applied & Environmental Geoscience (AEG)

University of Tübingen • Tübingen

### Overview

Degree	Master of Science in Applied & Environmental Geoscience
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	<p>The programme is fully taught in English.</p> <p>German courses are available at the university's House of Languages, including early bird and evening classes for beginners. These classes are specially designed for international Master's and PhD students. The full German course programme is available under: <a href="http://www.uni-tuebingen.de/en/1056">www.uni-tuebingen.de/en/1056</a></p>
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	<ul style="list-style-type: none"><li>Non-EU applicants: 31 March</li><li>German and EU applicants: 15 July</li></ul>
Tuition fees per semester in EUR	1,500 EUR
Additional information on tuition fees	1,500 EUR per semester for students from non-EU countries
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>AEG stands for the following:</p> <ul style="list-style-type: none"><li>a modern, interdisciplinary curriculum at one of the largest and renowned institutes of geosciences and environmental sciences</li><li>a highly motivated staff and excellent study conditions in an international environment</li><li>research and studies in working groups with many contacts to universities abroad</li></ul> <p>AEG is an international research-oriented study programme that focuses on the evaluation and solution of environmental problems. Special emphasis is placed on problems in the subsurface such as the pollution of drinking water supplies, the non-sustainable use of natural resources, and the</p>

impact of climate and land-use change on soil and water quality. Finding solutions to such issues requires a comprehensive understanding of the physical, chemical, and biological mechanisms under natural conditions. AEG offers an approach to these mechanisms based on an in-depth knowledge of classical natural sciences combined with the utilisation of modern technology. The study programme covers the essential fields of hydrogeology, environmental modelling, environmental chemistry and environmental microbiology as well as environmental physics.

The programme is designed for students interested in a graduate education in environmental geosciences following multidisciplinary approaches. A good background in mathematics, chemistry, and physics is required. Undergraduate training in geosciences or environmental sciences is helpful but not requested. Capabilities of independent problem solving are important and will be further developed within the educational programme.

Three areas of specialisation allow an individual study focus on the following:

- Hydrogeology
- Environmental Chemistry and Environmental Microbiology
- Environmental Physics

## Course Details

### Course organisation

AEG is a two-year programme, beginning each winter semester. It consists of a suite of five compulsory modules, ten elective modules, and a Master's thesis.

The first semester with the compulsory modules in "Groundwater Modelling 1", "Environmental Chemistry", and "Global Change" introduces students to the necessary theoretical and quantitative aspects of environmental and applied geosciences. The following semesters allow students an individual focus in one of three areas of specialisations with three mandatory classes for each specialisation:

- Hydrogeology: "Groundwater Modelling 2", "Hydrogeological Field Investigation Techniques", "Remediation of Contaminated Sites"
- Environmental Chemistry and Environmental Microbiology: "Biotransformation of Pollutants", "Hydrogeochemical Modelling", "Environmental Analytical Chemistry"
- Environmental Physics: "Physics of the Earth's Surface", "Atmospheric Physics", "Climate Dynamics"

Further elective classes can be chosen from the other specialisations or as further immersion within the chosen specialisation (e.g. specialised lab courses).

In the "Scientific Practice" and "Scientific Presentation" compulsory modules, students gain additional practical interdisciplinary skills and benefit from close interaction with staff and research groups as well as from an early start of the Master's thesis in the third semester.

**A Diploma supplement will be issued**

Yes

**Integrated internships**

Internships are not required.

**Course-specific, integrated German language courses**

No

**Course-specific, integrated English language courses**

No

## Costs / Funding

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<b>Tuition fees per semester in EUR</b>	1,500 EUR
<b>Additional information on tuition fees</b>	1,500 EUR per semester for students from non-EU countries
<b>Semester contribution</b>	Enrolment fees at the University of Tübingen are currently about 160 EUR per semester. This includes use of local public transport free of charge from Mondays to Fridays in the evening, on weekends and public holidays. In addition, students may purchase a semester ticket for unlimited use of public transport in the city of Tübingen and the surrounding area (currently about 130 EUR per semester).
<b>Costs of living</b>	Average expenses students have per month are around 950 EUR according to the Tübingen Student Services organisation ("Studierendenwerk"), including rent for student accommodation. Rent for private accommodation will be more expensive.
<b>Funding opportunities within the university</b>	No

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## Requirements / Registration

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<b>Academic admission requirements</b>	<p>A Bachelor's degree (or equivalent) in geology, geoecology, environmental sciences, geophysics, mineralogy, physical geography, soil science, mathematics, physics, chemistry, biology, computer science, civil engineering or in another subject related to environmental sciences.</p> <p>The Bachelor's curriculum must have included courses in mathematics, physics and chemistry.</p>
<b>Language requirements</b>	Applicants must provide adequate proof of English proficiency equivalent to level B2 of the Common European Framework CEFR (e.g. TOEFL 79 iBT, IELTS 6.5).
<b>Application deadline</b>	<ul style="list-style-type: none"><li>• Non-EU applicants: 31 March</li><li>• German and EU applicants: 15 July</li></ul>
<b>Submit application to</b>	<p>Online application portal: <a href="https://uni-tuebingen.de/en/4204">https://uni-tuebingen.de/en/4204</a></p> <p>For questions regarding the application process, please contact the International Students Admissions Office: <a href="mailto:study.master@uni-tuebingen.de">study.master@uni-tuebingen.de</a>.</p>

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## Services

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<b>Possibility of finding part-time employment</b>	Students may find jobs as graduate research assistants in projects at the Geo- and Environmental Research Center (GUZ).
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## Accommodation

Accommodation is available through the Student Services organisation ("Studierendenwerk") or on the private market. Rooms in student accommodation cost approx. 250 to 400 EUR per month. As Tübingen is a very attractive place to live, private accommodation is more expensive and can take some effort to find. To make sure you find a suitable place to live, you should start looking as early as possible.

We recommend you apply for student accommodation through the "Studierendenwerk" immediately after you have been admitted to the Master's programme. For further information, see: <https://www.my-stuwe.de/en/housing/halls-of-residence-tuebingen>.

## Support for international students and doctoral candidates

- Welcome event
- Pick-up service
- Buddy programme

## General services and support for international students and doctoral candidates

The university offers a number of "onboarding" services for newly arriving international students. These include:

- a help desk
- a buddy programme
- an advisory programme: "How to Study at the University of Tübingen"
- a wide range of social activities offered by student groups

For further information, please refer to: <https://uni-tuebingen.de/en/182071> (onboarding for degree-seeking students).

A student initiative offers a buddy programme and a wide range of social activities during the orientation week and throughout the semester: [www.studit-tuebingen.de/en](http://www.studit-tuebingen.de/en).

Furthermore, there is an Office for Advising and Admission of International Students: <http://www.uni-tuebingen.de/en/90787>.



## Studying Applied & Environmental Geoscience (AEG) in Tübingen

Meet students and lecturers

» more:  
<https://www.youtube.com/watch?v=8aNfjWfaeGY>

Innovative, interdisciplinary, international: These three words summarise what makes the University of Tübingen special. Excellent research and teaching are Tübingen's answer to the challenges of the future in a globalised world. We maintain exchanges with partners around the globe. Networks and cooperation across faculty and subject boundaries are the pillars of our successful strategy. This is reflected in our good position in international rankings. In addition, we are one of the eleven German universities distinguished with the title of "excellent".

The University of Tübingen has been a place of top-level research and excellent teaching for more than 500 years. Some 28,160 students from Germany and around the world are enrolled here in our more than 200 study programmes, including numerous international programmes taught entirely in English.

The University of Tübingen is a member of "CIVIS – A European Civic University" European University Alliance (<https://civis.eu/en>), which offers a wide range of special exchange opportunities for students.

The Department of Geosciences is among the largest geoscience departments in Germany and comprises a wide spectrum of research fields, which is reflected by numerous national and international research activities. The research area Geo- and Environmental Sciences comprises of 27 work groups in the classical geoscientific disciplines and in environmental sciences.

In the new building, which opened in 2020, the Geo- and Environmental Research Center (GUZ) offers extensive laboratory facilities with state-of-the-art experimental and analytical equipment as well as modern field investigation and monitoring equipment.



## University location

Tübingen...

- is located in south-western Germany, about 40 kilometres south of Stuttgart.
- has some 90,000 inhabitants. The town's many students and its numerous young families make Tübingen Germany's youngest city by average age.
- is one of the most coveted places to study in Germany – both because of the excellent conditions for students and researchers, and the unique charm of the town.
- boasts a renowned historic centre with many cafés, restaurants, shops, and outstanding cultural activities.
- is a very safe place to be, with excellent public transport.
- is well known for its eco-friendly attitudes
- is surrounded by beautiful countryside. The Black Forest and the Swabian Jura hills are not far away and provide excellent opportunities for climbing, canoeing, hiking, biking – and skiing in winter.

## Contact

**University of Tübingen**  
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🌐 Course website: <https://uni-tuebingen.de/en/84731>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)

[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

## Editor

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## GATE-Germany

Consortium for International Higher Education Marketing

[www.gate-germany.de](http://www.gate-germany.de)

## Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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