



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Geomatics Engineering - GEOENGINE

University of Stuttgart • Stuttgart



## Overview

Degree	Master of Science (MSc)
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	Apart from the pre-course on German Language and Culture, all lectures and labs will be exclusively taught in English. Additionally, the Master's thesis has to be prepared in English.
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	The GEOENGINE programme starts in the winter semester each year. The deadline for submitting application documents is 15 March of the same year.
Tuition fees per semester in EUR	Varied
Additional information on tuition fees	EU citizens do not pay tuition, whereas non-EU citizens pay a tuition of 1,500 EUR per semester (may soon be changed/abolished).
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>Geomatics Engineering (GEOENGINE) is the key discipline for measuring, modelling and presentation of geospatial data and processes. Recent technological developments such as global satellite navigation, autonomous navigation, driver assistance systems, digital maps and virtual globes have enhanced geodesy and geoinformatics in the public awareness. GEOENGINE meets societal demands for geospatial infrastructures for sustainable development and responsible use of available resources.</p> <p>The international programme comprises solid theoretical foundations in mathematics, theoretical</p>

geodesy, satellite geodesy and geo-methodologies, in addition to applied subjects such as the representation of geodata, positioning, navigation, multisensor integration and geo-telematics. The two-year programme consists of three course-based semesters and one semester dedicated to thesis research.

## Course Details

<b>Course organisation</b>	<p>The courses are organised into modules. Most of them are mandatory, while two out of four modules are electives. All modules are credited according to the European Credit Point System (ECTS). The total required for successful completion of the programme of study is 120 ECTS, including preparation of the Master's thesis.</p> <p>The language of instruction is English. A compact German language course (before the first semester) and two weeks of practical field work are also mandatory parts of the programme.</p> <p><a href="#">» PDF Download</a></p>
<b>A Diploma supplement will be issued</b>	Yes
<b>Course-specific, integrated German language courses</b>	Yes
<b>Course-specific, integrated English language courses</b>	No

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	Varied
<b>Additional information on tuition fees</b>	EU citizens do not pay tuition, whereas non-EU citizens pay a tuition of 1,500 EUR per semester (may soon be changed/abolished).
<b>Semester contribution</b>	Approx. 200 EUR per semester
<b>Costs of living</b>	Living expenses amount to about 1,050 EUR per month. You will have to demonstrate that you have sufficient finances to cover your living expenses for 12 months. EU citizens may apply for state-guaranteed loans during the time of enrolment. For more information, see the links on our websites.
<b>Funding opportunities within the university</b>	Yes
<b>Description of the above-mentioned funding opportunities within the university</b>	Please check our website on financial aid and scholarships: <a href="https://www.uni-stuttgart.de/en/study/living-in-stuttgart/finances/index.html">https://www.uni-stuttgart.de/en/study/living-in-stuttgart/finances/index.html</a>

# Requirements / Registration

<b>Academic admission requirements</b>	A qualifying Bachelor's degree in geomatics engineering or in another corresponding course or a degree regarded as equivalent obtained at a foreign university, typically with a four-year standard period of study
<b>Language requirements</b>	For non-native speakers, proof of sufficient proficiency in the English language (i.e., TOEFL test, min. 550 points [paper-based] or 213 points [computer-based] or 80 points [Internet-based]) or another comparable proof (i.e., IELTS Band 6.0). Applicants with English as medium of instruction during their Bachelor's education (official proof from university requested) are exempted from this requirement.
<b>Application deadline</b>	The GEOENGINE programme starts in the winter semester each year. The deadline for submitting application documents is 15 March of the same year.
<b>Submit application to</b>	Applications must be submitted digitally via the University of Stuttgart's CAMPUS portal: <a href="https://campus.uni-stuttgart.de/cusonline/ee/ui/ca2/app/desktop/#/login?\$ctx=lang=en">https://campus.uni-stuttgart.de/cusonline/ee/ui/ca2/app/desktop/#/login?\$ctx=lang=en</a>

## Services

<b>Possibility of finding part-time employment</b>	<p>Please be aware that it may be very challenging to finance your whole studies by working. Non-EU citizens are allowed by law to work for a maximum of 120 days per year. Only students who are employed by the university in one of the institutes or departments (Studentische/Wissenschaftliche Hilfskräfte) are exempt from this regulation, but other restrictions apply.</p> <p>For more detailed information, please consult our websites: <a href="#">International Students: Financing your Studies</a> and <a href="#">Working during your studies</a></p>
<b>Accommodation</b>	Both the campus in Stuttgart-Vaihingen and the campus in the centre of Stuttgart have on-site halls of residence. Dorm rooms (ranging from 320 EUR to 450 EUR per month) are furnished. Some are equipped with a sink, and all have access to kitchen and sanitary facilities, telephone and Internet. From the campus in Stuttgart-Vaihingen, the city of Stuttgart can be reached by suburban railway within ten minutes.
<b>Support for international students and doctoral candidates</b>	<ul style="list-style-type: none"><li>• Welcome event</li><li>• Buddy programme</li><li>• Tutors</li><li>• Accompanying programme</li><li>• Cultural and linguistic preparation</li><li>• Pick-up service</li><li>• Specialist counselling</li><li>• Visa matters</li><li>• Help with finding accommodation</li><li>• Support with registration procedures</li></ul>
<b>Supervisor-student ratio</b>	2:3



## The Master's programme Geomatics Engineering (GEOENGINE) at the University of Stuttgart

Get an insight into GEOENGINE - in just 120 seconds! Two students from the University of Stuttgart explain what is special about this programme and why they chose Stuttgart.

» more: <https://youtu.be/YvjkQ-COUE4>

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# University of Stuttgart

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### **Intelligent systems for a sustainable society**

The University of Stuttgart is one of the leading technically oriented universities in Germany with global significance. Located centrally in an economically strong region with vast cultural integration, the university sees itself as a hub of university-based, extramural and industrial research. Furthermore, it takes a role as a leader in research-based teaching, focused on quality and holism. The university is dedicated to researching and strengthening the interfaces between technology, society and culture in an interdisciplinary manner, defined as the "Stuttgart Way". This means the integration of engineering, natural sciences, humanities and social sciences based on the fundamentals of cutting-edge research at a disciplinary level.

### **Excellent research and teaching**

The University of Stuttgart implements innovative concepts in research and teaching in order to provide knowledge and strategies for a meaningful and sustainable development. It focuses on basic research that is both knowledge-oriented and application-related. To facilitate this research, the university is actively part of regional, national and international research networks.

The university is committed to the principle of unity between research and teaching. Students acquire knowledge, expertise and the power of judgement, in accordance with the guidelines of scientific research and awareness. The university fosters fascination for the sciences, supporting its students and junior researchers at all stages of their careers. It promotes independent thinking and provides an environment for responsible action. In doing so, it educates individuals into exceptional experts who think in an integrative and global manner and act responsibly in the sciences, economics and society.

### **A powerful region**

Founded in 1829, at the beginning of the Industrial Age, the University of Stuttgart continues to prepare the way for innovation within an economically and scientifically powerful region and contributes to the economic success and prosperity of our society. This process combines the requirements of a social and cultural change, which allows an early and extensive input of social interests in research and design as well as teaching and further education.

### **Open-mindedness**

The University of Stuttgart stands for open-mindedness, individuality and community spirit. It brings together students that are eager to learn, highly motivated employees, outstanding teachers, and excellent researchers as well as visionary thinkers and inventors. By means of its culture of integration, the university creates and conveys knowledge for shaping the future of our society.



## University location

The University of Stuttgart is nestled in one of Europe's most vibrant industrial regions. This fosters many forms of interdisciplinary collaboration – for instance, in numerous Collaborative Research Centres (also known as CRC or sometimes CRC/TRR) and in application-oriented research assignments. The University of Stuttgart sets up a close relationship and a successful transfer of knowledge and technology between its research institutions and business enterprises in the region and beyond. This very practical orientation benefits research and teaching. At the same time, economic players profit from rapid access to new scientific knowledge and contact to experts in their specialised fields. There are numerous possibilities of collaboration for businesses. Furthermore, the university also maintains a close relationship with non-university research institutions such as the Max Planck Society, the Fraunhofer Society, the German Aerospace Center and the German Literature Archive Marbach. Thus, the optimal prerequisites for cutting-edge research at the highest level are all to be found in Stuttgart.

## Contact

**University of Stuttgart**  
Institute of Engineering Geodesy

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✉ [geoengine@geoengine.uni-stuttgart.de](mailto:geoengine@geoengine.uni-stuttgart.de)

🌐 Course website: <https://www.student.uni-stuttgart.de/en/study-programs/Geomatics-Engineering-GEOENGINE-M.Sc-00001/>

📘 <https://www.facebook.com/Universitaet.Stuttgart>

🐦 [https://twitter.com/Uni\\_Stuttgart](https://twitter.com/Uni_Stuttgart)

📷 <https://www.instagram.com/unistuttgart/>

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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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Consortium for International Higher Education Marketing  
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## 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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