Deutscher Akademischer Austauschdienst
German Academic Exchange Service

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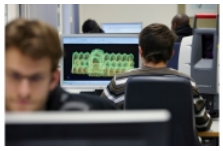
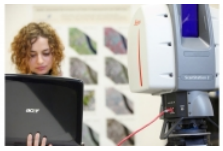
Master's degree

Photogrammetry and Geoinformatics

Hochschule für Technik Stuttgart - University of Applied Sciences • Stuttgart


Overview

Degree	Master of Science in Photogrammetry and Geoinformatics
Teaching language	• English
Languages	English
Full-time / part-time	• full-time
Programme duration	3 semesters
Beginning	Winter semester
Application deadline	• DAAD scholarship application via university: 15 October for the following winter semester • Non-EU applicants: 15 April for the following winter semester • EU applicants: 15 July for the following winter semester Completed applications have to be submitted in English. In addition to the official study programme application form, applicants for a DAAD scholarship are required to submit the DAAD scholarship application form. Both forms are available at https://www.hft-stuttgart.com/geomatics/master-photogrammetry-and-geoinformatics.
Tuition fees per semester in EUR	Varied
Additional information on tuition fees	International students are exempted from the study fees if they fulfil one of the following requirements: • receive a scholarship from the DAAD, or • have the nationality of a signatory country of the Partnership Agreement 2000/483/EC (known as "ACP" countries), or • have the nationality of a state that, according to the list of the United Nations, is one of the least developed countries (known as "LDC").
Combined Master's degree / PhD programme	No

Joint degree / double degree programme	No
Description/content	Photogrammetric technology is trained on modern digital workstations with sophisticated analytical systems. The focus is on the processing chain of aerial images: scanning, automated aerotriangulation, acquisition of digital elevation models, orthoimage generation, and topographic and thematic mapping. Gaining experience in handling the increasingly important alternative data sources such as high-resolution remote sensing satellites, radar, and airborne laser scanning rounds off modern photogrammetric education. In the field of geoinformatics, the main topics are acquisition, storage, analysis, retrieval, and display of spatially related data concerning both the Earth's physical features and the built-up environment. Important parts of the postgraduate course – all of them accompanied by intensive training – include studying the methods for data modelling in geoinformation systems and designing and handling diverse databases, GIS data formats, and GIS customisation (including its programming). Dealing with the latest developments in topics such as World Wide Web technologies, 3D visualisation, and the integration of GIS and photogrammetry prepare the participants of the course for the future. The Accreditation Agency for Study Programmes in Engineering, Informatics, Natural Sciences and Mathematics (ASIIN e.V.) has accredited the Photogrammetry and Geoinformatics Master's programme. In addition, this Master's programme has achieved excellent results, evaluated as a "Premium Seal" programme in a report written on behalf of the DAAD in 2009. Furthermore, the programme has successfully established itself as a leader in teaching, receiving students from all over the world.

Course Details

Course organisation	The complete course comprises of two intensive semesters of lectures and exercises. Each semester is structured into four different core modules, including the main topics as well as soft skills like presentation techniques and project management. In the second semester, elective modules are offered additionally. Optional tutorials are offered to support students with different background knowledge. Each semester ends with two weeks of exams. Between the first and the second semester, there are two two-week intensive training practices in GIS and photogrammetry. The third semester includes a tenth module: a full-time research project aimed at the elaboration of a Master's thesis accompanied by a research seminar. Additionally, an optional online preparation course is offered for admitted students to refresh some of the fundamentals needed for the study programme. » PDF Download
A Diploma supplement will be issued	Yes
International elements	• International guest lecturers • Language training provided • Training in intercultural skills • International comparisons and thematic reference to the international context
Description of other international elements	The thesis can be written abroad or in the home country, involving project work with references to and data from developing countries. It is important to us that the course is international – the 25 study places will have students from 15 to 20 countries.

Integrated internships	Due to the tight schedule, no internships are integrated. However, there is the possibility of extending the stay in Germany for an additional internship after finishing the Master's course.
Special promotion / funding of the programme	• DAAD development-related postgraduate course
Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	1,500 EUR
Additional information on tuition fees	International students are exempted from the study fees if they fulfil one of the following requirements: • receive a scholarship from the DAAD, or • have the nationality of a signatory country of the Partnership Agreement 2000/483/EC (known as "ACP" countries), or • have the nationality of a state that, according to the list of the United Nations, is one of the least developed countries (known as "LDC").
Semester contribution	Approx. 215 EUR per semester (subject to change)
Costs of living	In general, students will need about 850 EUR per month to cover their living expenses: • rent for a single room in a dormitory within Stuttgart: approx. 300 EUR to 450 EUR per month (private rooms or individual flats in Stuttgart usually cost more), • health insurance: approx. 110 EUR per month, • semester ticket for public transport: approx. 210 EUR per semester, • food: approx. 150 EUR per month, • miscellaneous costs: approx. 150 EUR per month.
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	• The university participates in the Deutschlandstipendien programme. Students or admitted applicants may apply for funding (maximum of two semesters with 300 EUR per month) each year in April. • The Study Foundation of the Stuttgart University of Applied Sciences supports students with scholarships depending on their individual situations.

Requirements / Registration

Academic admission requirements	• Degree (equivalent to a BSc) in Civil Engineering, Geodesy, Geography, Agriculture, Forestry, or a corresponding degree of another profession related to geodata • A good mathematical background and good computer skills are required. • Two years of competent professional experience are recommended.
Language requirements	Applicants must provide proof of their English skills by submitting one of the following: TOEFL (paper-based minimum 550 points, computer-based minimum 213 points, or Internet-based minimum 80 points), IELTS (band 6.0 or higher), or equivalent.
Application deadline	• DAAD scholarship application via university: 15 October for the following winter semester • Non-EU applicants: 15 April for the following winter semester • EU applicants: 15 July for the following winter semester Completed applications have to be submitted in English. In addition to the official study programme application form, applicants for a DAAD scholarship are required to submit the DAAD scholarship application form. Both forms are available at https://www.hft-stuttgart.com/geomatics/master-photogrammetry-and-geoinformatics.
Submit application to	Hochschule für Technik Stuttgart MSc Photogrammetry and Geoinformatics c/o Matthias Roth Schellingstr. 24 70174 Stuttgart Germany

Services

Possibility of finding part-time employment	From time to time, a small number of jobs for students with specific backgrounds are offered by the university, including the possibility of participating in one of the research projects of the faculty.
Accommodation	Student accommodation is offered by the administration of the 12 universities in Stuttgart. About 6,500 furnished rooms are available. The monthly rent depends on their level of furnishing. All rooms have high speed, low cost Internet access. Using public transport with an inexpensive student ticket, a student can reach the campus in a few minutes. As it is difficult to find private furnished apartments in Stuttgart, we advise you not to bring your family.
Career advisory service	Advisory service for establishing of a company (https://www.hft-stuttgart.de/studium/nach-dem-studium/gruendungsservice)
Support for international students and doctoral candidates	• Welcome event • Buddy programme • Tutors • Specialist counselling • Cultural and linguistic preparation • Visa matters • Pick-up service

General services and support for international students and doctoral candidates	Support with self-organised events (excursions, parties, etc.), cultural excursions offered by the International Students' Office
Supervisor-student ratio	~1:6

Hochschule für Technik Stuttgart - University of Applied Sciences

Stuttgart University of Applied Sciences

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The mission of the university is: analytical thinking – innovative design – responsible planning – acting economically.

Our sense of well-being depends to a great extent on the quality, the functionality, and aesthetics of the spaces in which we spend our time. Architects and engineers plan and design these spaces – not just the living premises but also the administration buildings, factories, hospitals, streets, bridges, tunnels, parks, airports, etc.

The tradition of teaching building, construction, and design at the Stuttgart University of Applied Sciences (HFT) reaches back to the year 1832. As you can imagine, we have a great deal of experience, and today, we are an internationally renowned place of education.

Closely associated with the engineering sciences are the processes of analytical thinking and taking economically oriented action. This is why we offer mathematics, computer science, and business management as part of our curriculum.

We turn knowledge into skills and people into personalities. Today, those who want to get ahead in their careers need more than just specialist knowledge. Qualifications such as team skills, flexibility, understanding of complex tasks, decisiveness, and a feeling of responsibility are desired. The HFT helps you to develop these key skills while you are still studying.

Our curriculum is continuously kept up-to-date in cooperation with business and industry. We want you to have the best qualifications for starting in your chosen field or for successfully obtaining even further qualifications in a Master's course.

A course of study at a university of applied sciences is a modern and successful academic path. Methodology coupled with practical experience offers the advantages of learning and teaching in small groups, being in close proximity to the professors, and having a clearly structured curriculum. Our students appreciate the fact that they can get to know the professional world and start making contacts with future employers while they are still studying. Part-time lecturers from businesses and industries as well as advisory boards of employers take care of a study alignment towards practice and employability.

Approximately 125 professors guarantee the high quality of teaching at the HFT. They possess excellent scientific qualifications as well as having professional experience in key positions in industry and business. The professors are assisted by 400 lecturers who bring expertise from their companies directly into the lecture halls. With the number of students at 4,000, this makes for an excellent teacher-to-student

ratio.

Hochschule
für Technik
Stuttgart

University location

Stuttgart, the capital of Baden-Württemberg, has about 610,000 inhabitants and is the centre of one of the most powerful industrial regions of Germany. Stuttgart is situated in the lovely valley of the Neckar river and lies amidst forests and vineyards which extend right into the city centre. Nineteen mineral springs with extensive spa and bathing facilities add to a variety of recreational offers.

Stuttgart is the economic, cultural, sporting, and social hub of a region in the heart of Europe, near to Switzerland, Austria, and France. In comparison to other metropolitan regions in Europe, it ranked first in several international rankings, particularly concerning export orientation, innovation, and research intensity.

For current and detailed information about Stuttgart, please have a look at https://www.stuttgart.de/en.

Contact

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Photogrammetry and Geoinformatics

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https://www.facebook.com/groups/163684438050/

https://www.twitter.com/hft_presse

https://www.linkedin.com/school/hochschule-f%C3%BCr-technik-stuttgart-%E2%80%93-university-of-applied-sciences/

https://www.instagram.com/hft_stuttgart

https://www.youtube.com/channel/UCi0_JfF2qMZbOhOnNH5PyHA

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