Studying geoinformation science will put the graduates into a top position in the international job-market: the field of geoinformation is considered worldwide as one of the key markets. There is a big demand for well-trained personnel in industrial countries as well as emerging markets.

After graduating, it is no problem for the new experts to find a job in the private market or consultancy. Here in particular the employer appreciates the international and intercultural experience of the students. Those who have been sent by an institution for further education, usually will be promoted to a higher position after return. A rather high percentage of the graduates continue their academic career with a doctoral study at German or international universities.

Young experts will experience a scientific and practice-oriented education in the fields of photogrammetry, remote sensing, and geoinformation science in addition to their professional background. An important objective is the transfer of up-to-date techniques into practice under different technological conditions. The course is designed in particular for future decision-makers and senior engineers of information and land management projects, national authorities for mapping, photogrammetry, land consolidation, forestry, agriculture, environment, rural or urban planning.

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http://www.hft-stuttgart.de/Photogrammetry-Geoinformatics
The course is divided into a one-year study period with a mix of lectures and exercises and a six-month Master's thesis project. On the basis of analytical and digital photogrammetry, the methods of recording with digital aerial cameras, automatic aerial triangulation, creating digital terrain models, generating true orthophotos and data capture of building models are taught using high-end modern computer workstations. Mobile and airborne laser scanning and their applications right up to creating virtual city models represent the link between photogrammetry and remote sensing. Remote sensing is taught both as regards to the sensors used, as well as their characteristics for geometric, spectral and temporal earth observation. The classification methods of multi and hyperspectral image analysis, including the evaluation of radar data, are taught through theory as well as through practical student projects.

Besides the methods of photogrammetric data acquisition in Geoinformatics further methods of terrestrial and satellite point detection (GNSS) for GIS are taught. Students acquire broad knowledge about different Database and Geographic Information Systems including Web-GIS, spatial analysis, and visualization based on different types and formats of 2D and 3D geodata. A major focus in this Master's degree is also placed the development of core skills and competencies. This enables students to cope with organisational tasks such as project management or prepares them for academic careers.

The final six-month project phase for the Master's thesis is undertaken either at the HFT Stuttgart, at a partner university abroad or in cooperation with companies in the field of photogrammetry, remote sensing, or geoinformatics. A small student to faculty ratio guarantees that professors, staff members, and tutors are easy to contact to provide support directly to students whenever needed.

The Hochschule für Technik Stuttgart, founded in 1832, is located in the center of Stuttgart, capital of the federal state Baden-Württemberg in the southwest of Germany. Education in Geomatics has a long tradition at our university. It has been pre-sent since 1865; in 1979 the first international training courses in photogrammetry have been offered which were converted to the international M.Sc. in Photogrammetry and Geo-informatics in 1999.

The programme is supported by the German Academic Exchange Service (DAAD) and has been evaluated as a premium study programme. It is accredited by ASIIN (Accreditation Agency for Study Programs in Engineering, Informatics, Natural Sciences and Mathematics) and holds the seal of European Accreditation of Engineering Programmes as a Second Cycle European Engineering Programme (EUR-ACE). As entry requirements, a Bachelor degree above-average in a profession related to geo-data and a proof of good English language skills are needed. Two years of relevant professional experience is recommended.