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Geodesy and Geoinformatics • Leibniz Universität Hannover • Hannover  ................................. 2
Overview

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<td>Teaching language</td>
<td>English</td>
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<td>Languages</td>
<td>The programme is open to German-speaking and international students. We guarantee that international students can complete the degree programme with courses held in English, although there are some courses that are offered in German only.</td>
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<td>Programme duration</td>
<td>4 semesters</td>
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<td>None</td>
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<td>Combined Master's degree / PhD programme</td>
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Description/content

Geodesy and Geoinformatics is an engineering and geoscience subject with a mathematics and physics bias and a close affinity to environmental science, law, and social sciences. Typical questions include engineering and geodetic monitoring of structures, capturing and use of environmental information, guidance of machines and vehicles, and remote sensing and researching of the system Earth. For geodata captured by modern measurement technology there are many applications, for example, in regional planning, for location-dependent mobile services and navigation systems.

This wide variety of tasks requires thorough knowledge in individual disciplines that are encountered in the broad spectrum of subjects in the programme in geodesy and geoinformatics at Leibniz Universität Hannover. Building on the broad content of the Bachelor's degree, the Master's
programme offers students the chance to study numerous individual disciplines at an advanced level and to specialise in certain disciplines. In particular, current aspects of research and their advanced applications on the basis of selected projects are at the heart of the Master’s programme.

Course Details

Course organisation

To do justice to the broad spectrum of the subject and constantly changing needs and methods, the Geodesy and Geoinformatics programme at Leibniz Universität Hannover covers a wide range of subjects. This programme is distinguished by its practical relevance. Alongside research-oriented theory, projects and seminars are deliberately designed to develop key competencies such as teamwork and problem-oriented actions. This combination makes it possible for graduates to choose from a broad spectrum of employment opportunities.

In the Master’s programme, students pursue independent research and development activities in industry or research institutes. In the first semester, there are activities which serve to summarise the basics in six disciplines:

- Engineering geodesy
- Physical geodesy
- Positioning and navigation
- Photogrammetry and remote sensing
- GIS
- Land and Real Estate Management

Building on the compulsory modules in Geodesy and Geoinformatics, students can specialise in one or more specialist area(s) whereby one entire subject area (Geodesy or Geoinformatics) can never be completely deselected. In parallel, there are two project seminars, in which a complex research-oriented task is tackled in small groups.

In an elective module, students are given the opportunity to attend courses from the Leibniz University’s entire selection of courses. The submission of a Master’s thesis completes academic studies.

Integrated internships

Internships are possible at all study levels, usually during semester breaks. Due to close relations to industry and to the public sector, internships can be planned by students individually. Support is given by the faculty.

Course-specific, integrated German language courses

No

Course-specific, integrated English language courses

No

Costs / Funding

Tuition fees per semester in EUR

None

Semester contribution

Approx. 410 EUR semester fee ("Semesterbeitrag")
The semester fee includes the following:
- Semester card (free public transport in Hanover and regional trains in Lower Saxony)
- Student services organisation
- Student representation ("AStA"), including access to the bicycle workshop
- Administrative costs
Compared to other European countries, the cost of living in Germany is quite reasonable. The prices for food, accommodation, clothing, cultural events, etc., are basically in line with the EU average. You will need around 850 EUR a month to cover your living expenses. The largest expense will be your monthly rent. (https://www.study-in.de/en/plan-your-stay/money-and-costs/cost-of-living_28220.php)

In Hanover, the rent amounts to between 300 and 500 EUR per month.

- "Deutschlandstipendium" and "Niedersachsenstipendium": https://www.uni-hannover.de/de/studium/finanzierung-und-foerderung/

Academic admission requirements include a Bachelor's degree or equivalent degree in Geodesy and Geoinformatics or similar studies. Students should be familiar with the concepts of linear algebra, statistics and optimisation theory. They should have a basic understanding of digital imaging/computer vision, satellite positioning, and the Earth gravity field. Finally, they need to have programming skills. In case of missing basic requirements, admission may still be granted. However, this is subject to the successful completion of additional "requirement courses" in which these basics are taught.

Note that the length of the programme may exceed the normal two-year cycle in this case.

Applicants must provide proof of either German or English language.

German: C1
English: C1

Non-EU applicants:
31 May for the following winter semester
30 November for the following summer semester

EU applicants:
15 July for the following winter semester
15 January for the following summer semester

1. Online application
2. The completed application needs to be printed and signed and sent to the university’s central administration by mail:
Leibniz Universität Hannover
Immatrikulationsamt
Welfengarten 1
30167 Hannover

There are many job opportunities for students on campus (in the different departments, the central administration, etc.) and off campus. About two-thirds of our students work at part-time jobs while pursuing their studies.
As one of the nine leading institutes of technology in Germany, Leibniz Universität Hannover is aware of its responsibility in seeking sustainable, peaceful, and responsible solutions to the key issues of tomorrow. Our expertise for this stems from the broad spectrum of subjects, ranging from engineering and natural sciences to architecture and environmental planning, and from law and economics to social sciences and humanities.

The main building of the university is the Royal Welfenschloss (Palace of the Guelphs) at Welfengarten Park. In 1879, the Higher Vocational School, originally founded in 1831, moved into the palace. Later, it became the Königliche Technische Hochschule (Royal College of Technology). Only 64 pupils attended the vocational school at first, but now there are almost 30,000 students enrolled in the nine faculties of Leibniz Universität Hannover and some 3,100 researchers are working in more than 180 institutes.

Our key research areas

Leibniz Universität Hannover is among the world’s leading institutions in its key research areas: biomedical research and engineering, quantum optics and gravitational physics, production engineering, and interdisciplinary studies of science and academia. These give us

Leibniz Universität Hannover: Shaping the future with knowledge

In today’s digital world, Geodesy and Geoinformatics is an interdisciplinary cutting-edge science and technology subject. See and hear what students and a professor of our international MSc programme say about the subject of Geodesy and Geoinformatics.

» more:
https://www.youtube.com/watch?v=GBxwL-BdUUU

Links on housing in Hanover (including a video about housing in Hanover for international students)
our innovative strength in developing precision measurement methods, optical technologies, novel materials, intelligent implants, and innovations in information technology or in the field of Industry 4.0.

The broad range of subjects at Leibniz Universität Hannover is entirely compatible with the overall university strategy of raising its profile, in particular in teaching and research, including the establishment and enhancement of research priority areas originating in the humanities and social sciences. Cooperation agreements with national and international partners strengthen our scientific expertise – our most important partner is Hannover Medical School.

By adopting the name of the polymath Gottfried Wilhelm Leibniz in 2006, the university committed itself to unity in diversity.

University location
Find us here on Google Maps.

Contact

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Course website: https://www.fbg.uni-hannover.de/en/studies/courses-at-the-faculty/geodesy-and-geoinformatics/

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