



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Remote Sensing and Geoinformatics

Karlsruhe Institute of Technology • Karlsruhe

### Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	Courses are held in English. Participation in German-language courses from other degree programmes is possible, but this is not required.
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	15 June for the following winter semester  15 December for the following summer semester  Applications will be screened as they arrive. We strongly encourage students not based in Karlsruhe to already apply roughly six months before the start of the semester in order to allow time for admission procedures, visa processing (if required), and relocation logistics.
Tuition fees per semester in EUR	1,500 EUR
Additional information on tuition fees	Tuition fees only apply to non-EU applicants. No fees apply to EU students.
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	The Master's programme in Remote Sensing and Geoinformatics is research-based, and it makes use of the unique capabilities available in these fields at KIT. The first and second semesters of the two-year programme set a common basis in remote sensing and geoinformatics techniques and applications. At the same time, a selection of one out of six profiles allows for a specialisation according to each student's interests. Lab rotations in the third semester allow students detailed insights into the scientific work of self-selected research groups at KIT. Furthermore, these lab rotations help students gain hands-on research experience. A six-month MSc thesis is completed in the fourth semester. Successful students are awarded the degree Master of Science (MSc) in Remote Sensing and Geoinformatics. The programme language is English. Selected supplementary courses in other languages may be chosen from other KIT programmes to complement the desired profiles of the students.

# Course Details

## Course organisation

The goal of this MSc programme is to convey the ability to independently apply scientific knowledge and methods to evaluate and solve complex scientific and social problems. To this end, a mixture of basic skills and advanced methods and applications make up the programme. The total number of credit points (CP) is 120. They are distributed over the different courses as follows:

- Remote Sensing 23 CP
- Mathematics and Beyond 15 CP
- Profile Courses 20 CP
- Supplementary Modules 8 CP
- Lab Rotation 20 CP
- Key Competences 4 CP
- Master's Thesis 30 CP

Students can choose from six profiles of combinations of two of the following topics areas:

- Computer Vision
- Remote Sensing of the Atmosphere
- Environmental Geodesy
- Geoinformatics

## International elements

- Language training provided

## Course-specific, integrated German language courses

Yes

## Course-specific, integrated English language courses

Yes

# Costs / Funding

## Tuition fees per semester in EUR

1,500 EUR

## Additional information on tuition fees

Tuition fees only apply to non-EU applicants. No fees apply to EU students.

## Semester contribution

Approx. 170 EUR per semester

## Costs of living

Approx. 800 to 1000 EUR per month

## Funding opportunities within the university

No

# Requirements / Registration

**Academic admission requirements**

Admission requirements to the Master's degree programme in Remote Sensing and Geoinformatics are:

- a completed Bachelor's degree or at least equivalent degree from a programme with a duration of at least three years, based on a minimum of 180 ECTS credit points in the fields of physical-natural sciences, engineering-information technology and especially geodesy or geoinformatics-affine or geoscientific fields
- minimum requirements in mathematics, statistics, physics and/or mechanics of 25 credit points completed in the Bachelor's programme
- minimum requirements in (geo) computer sciences, image processing, remote sensing, photogrammetry, geosciences, geodesy and/or cartography of at least 30 credit points completed in the Bachelor's programme

**Language requirements**

Test of English as Foreign Language (TOEFL) with a score of at least 570 in the paper-based test, a score of at least 230 in the computer-based test, a score of at least 92 in the internet-based TOEFL test, or IELTS with a minimum score of 6.5 or an equivalent certificate

These criteria do not apply to applicants whose native language is English or who have obtained a university degree in an English-language study programme or in an English-speaking country.

**Application deadline**

15 June for the following winter semester

15 December for the following summer semester

Applications will be screened as they arrive. We strongly encourage students not based in Karlsruhe to already apply roughly six months before the start of the semester in order to allow time for admission procedures, visa processing (if required), and relocation logistics.

**Submit application to**

Application online only: <https://www.intl.kit.edu/istudies/12643.php>

## Services

**Possibility of finding part-time employment**

It is possible to find part-time employment, e.g. as a scientific assistant at KIT.

**Accommodation**

Accommodation is available in student residences, organised by the Studierendenwerk in Karlsruhe: [https://www.sw-ka.de/en/wohnen/wohnheime\\_ka/](https://www.sw-ka.de/en/wohnen/wohnheime_ka/).

Additionally, students can find accommodation on the free market in individual flats or flat shares. The KIT international office has more information: <https://www.kit.edu/study/living-and-learning-in-karlsruhe.php>.

**Career advisory service**

KIT has a professional career service: <https://www.irm.kit.edu/careerservice.php>.

**Support for international students and doctoral candidates**

- Welcome event
- Buddy programme

## Contact

### Karlsruhe Institute of Technology

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🌐 Course website: [https://gug.bgu.kit.edu/english/msc\\_rs-geoinfo.php](https://gug.bgu.kit.edu/english/msc_rs-geoinfo.php)

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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)

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