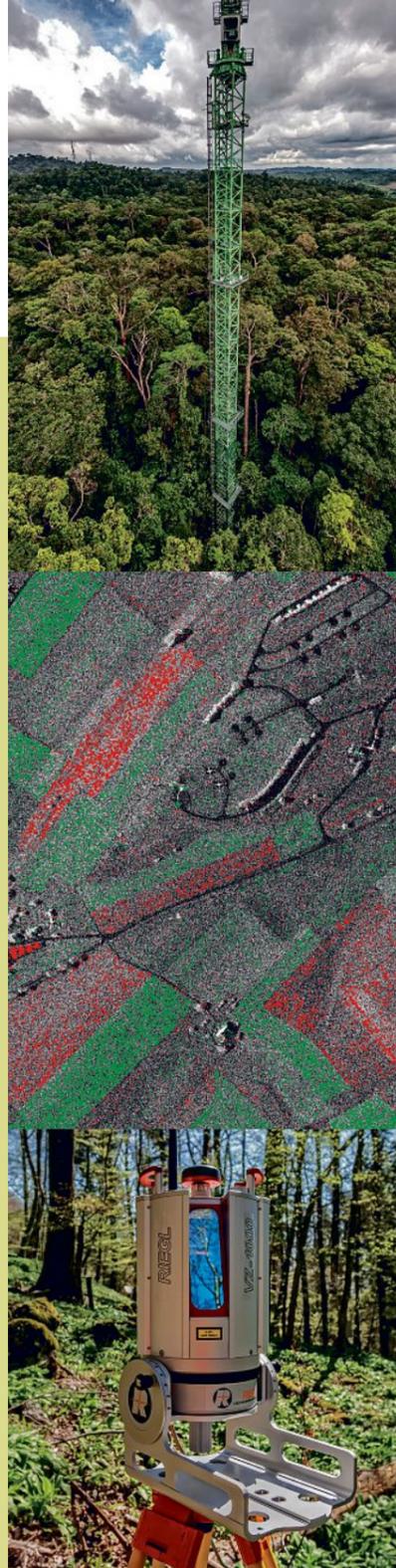


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University of  
Zurich<sup>UZH</sup>

Faculty of Science

SPECIALIZED  
MASTER

# Remote Sensing

Observing the Earth



The specialized Master's in Remote Sensing attracts students from a wide range of disciplines who would like to make use of remote sensing in understanding the environment. This highly interdisciplinary program develops methodological, analytical, experimental, and computational competencies needed to analyze Earth observation data for environmental questions. This Master's program has a clear research focus, which is particularly suitable for those planning a scientific career.

### SPECIALIZED MASTER'S IN REMOTE SENSING

Remote sensing is the science of deriving information about the Earth's spheres through the capture, processing and analysis of electromagnetic radiation of different wavelengths. Remote sensing is integral to a wide range of applications including: global climate change, ecology and conservation, deforestation, fire mapping, earthquakes, volcanology, pollution, oceanography, resource management, food security and humanitarian applications. The remote sensing activities at the Department of Geography combine Europe's leading groups by advancing our understanding of the Earth functioning using remote sensing methods.

### ADMISSION CRITERIA

The specialized Master's in Remote Sensing welcomes students with a background in environmental sciences as well as in the fundamental natural sciences (e.g., physics, mathematics, statistics, biology, chemistry, computing) who wish to exploit their skills in an Earth system context. Admission requirements include:

- Above-average performance and completion of a Bachelor's degree
- At least 45 ECTS of coursework in Remote Sensing, GIS and/or other relevant field in the natural sciences
- Basic knowledge in computer science is an asset
- At least 5 ECTS of coursework in Mathematics and / or Statistics
- Prior knowledge acquired in your field of interest (e.g., ecology, geology, etc.)
- High degree of motivation

### PROGRAM STRUCTURE

The extended Master's thesis of 60 ECTS gives you the opportunity to deepen into a research project with much detail. An individual course program of 30 ECTS is tailored to your preferences and needs. The specialized Master's in Remote Sensing is embedded in the Department of Geography. Students benefit from interactions with other disciplines such as Earth System Science, Ecology, Mathematics, Geographic Information Science, Glaciology, Hydrology, and Soil Science.

### COURSE OFFERINGS

- Remote Sensing Seminars
- Spectroscopy of the Earth System
- SAR und LIDAR

In addition, you can choose from a large number of other Master's courses offered by the University of Zurich, ETH Zurich, or other Swiss universities.

### EXCELLENT SUPERVISION

The Remote Sensing Laboratories at the Department of Geography, University of Zurich, are unique in size and outreach within Switzerland and beyond. Being one of our specialized Master's students, you profit from excellent supervision conditions of our highly committed research staff. We provide world-class experts in spectroscopy, laser- and radar remote sensing, as well as multimodal remote sensing. You have the possibility to collaborate in national and international projects and will contribute to contemporary science questions.

### CAREER OPPORTUNITIES

A specialized Master in Remote Sensing ensures high employability in remote sensing related positions, at research institutions, as well as in the public or private sector. The program has a dedicated research focus, which is particularly suitable for those envisaging a scientific career.

**SPECIALIZED  
MASTER**

