Fundamentals of remote sensing

Master's degree in Earth and Planet Sciences, Environment

M1 **M2**

Train high level specialists in Earth and planetary remote sensing from drone to satellite.

This master Fundamentals of remote sensing, proposed in partnership with Sorbonne Université and several Grandes Ecoles of the Paris region in the second year, trains physicists specialized in remote sensing. It covers the entire data production chain (orbitography, wave propagation, radiative transfer, data and image processing, physical modeling and applications). It allows students to do a PhD thesis in Geophysics, Environmental Science or Applied Science. It also gives them the opportunity to work directly in technology companies in the space and telecommunication sectors.

Requirements for admission

M1: bachelor's degree in geosciences, physics, mathematics
M2: M1 in geosciences, physics, mathematics; 2nd year of engineering school;
engineering degree
The training is open to continuing education and "validation des acquis de l'expérience" (VAE)

Following carrer

- PhD thesis in a public or a private research laboratory
- Job in a startup, a SME or a large industrial group

Jobs

- Teacher, professor, researcher
- R&D engineer, system engineer, software engineer
- Project Manager, consultant, manager, sales manager

Activity Sectors

- Secondary and higher education
- Public research
- Space agencies
- Space and telecommunications companies
- Digital service companies
- Administrations, local and regional authorities

Application

www.ipgp.fr/en/master-admission-etc

Head of program

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Keywords

- Electromagnetism, radiometry, radiative transfer, orbitography
- Data and image processing, numerical modeling
- Applications of remote sensing (geophysics, natural hazards, terrestrial ecosystems, natural resources, exploration of the solar system, etc.)
- Space law

Organization of the year

M1: common with the M1 of Geophysics
M2: organized jointly with the training MOCES (Meteorology, Oceanography, Climate, Engineering for Space Observation) of Sorbonne Université

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