

Berlin, 28.05.2010

The Department of Geoinformation Processing for Landscape and Environmental Planning of the Technische Universität Berlin invites applications for a

## PhD Research Assistant position (3 year fixed term contract / half-time position / salary of BAT IIa)

for the research project ForestHype. The project aims at developing remote sensing-based methods on the basis of aerial imaging spectroscopy data and simulated EnMap satellite data to identify forest parameters such as forest type, biomass, vitality, biodiversity and silvicultural indicators. ForestHype is a joint project of the University of Freiburg, University of Göttingen and TU Berlin. The Geoinformatics section of the TU Berlin is responsible for deriving algorithms for woodland biodiversity indicators in a study site in north-east Germany. ForestHype is part of a series of applied imaging spectroscopy projects for the preparation of the EnMAP mission (<http://www.enmap.org/>). The PhD position will be embedded in a framework of a wider team of PhD students (similar to a graduate school) in which joint activities such as annual summer schools and a Young-EnMap network are planned.

### Tasks:

- Development of novel imaging spectroscopy data exploration methods and algorithms for woodland biodiversity applications with the help of an existing radiance transfer model
- Investigating multisensoral approaches in combination with multitemporal / multispectral satellite data
- Working on the combination of remote sensing results according to national and European guidelines for biodiversity
- Dissemination of methods and results at conferences and in scientific journals

### Requirements:

- University degree (MA / Diploma) in geoinformatics, geography, geo-ecology, environmental sciences or comparable with focus on remote sensing.
- keen interest and knowledge in techniques and methods of imaging spectroscopy and basic knowledge of field spectroscopy
- strong skills in remote sensing data processing software (e.g. ENVI, Erdas Imagine) and knowledge of at least one related computer language (e.g. IDL)
- preferably acquaintance with spatial modelling and statistics

We are looking for enthusiastic and self-motivated candidates who meet the academic requirements for enrolment for the PhD degree. Good team-working, observational and communication skills are essential. For more information about our department, please visit our website at: [www.geoinformation.tu-berlin.de](http://www.geoinformation.tu-berlin.de)

**Start:** As soon as possible  
**Duration:** 3 years (until 30.06.2013)  
**Position:** PhD student  
**Application Deadline:** Review of applications begins June 10, 2010 and continues until position is filled

Applications and further requests should be directed to:

Technische Universität Berlin  
Prof. Dr. Brigit Kleinschmit (+49-30-314-72847; [birgit.kleinschmit@tu-berlin.de](mailto:birgit.kleinschmit@tu-berlin.de))  
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Our institutions are committed to equal opportunities and to employing individuals with disabilities. Applications via Email are possible. This position is under reserve of the final funding.