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DLR – DAAD Fellowships

Fellowship No. 372

Research Area : Space

Research Topic: **Development of new urban applications using Earth observation based classifications of city morphologies**

DLR Institute: Remote Sensing Technology Institute (IMF) at DLR Oberpfaffenhofen
German Remote Sensing Data Center (DFD) at DLR Oberpfaffenhofen

Position: Doctoral Fellow

Openings: 1

Job Specification: The new generation of Earth observation satellite missions such as the European Sentinels or the German TanDEM-X missions provide a new large area and spatially highly resolved data base for capturing the complex compositions of urban landscapes. New thematically, spatially and temporally mapping products based on multi-sensor EO-data are becoming available. The retrieved information, such as urban structure types and their changes over time, will lay the foundation for an unprecedented source of geo-information. In the interdisciplinary combination of remote sensing data and techniques with concepts and methods of urban geography a huge potential for new geographic findings is seen.

The envisaged work aims at the interdisciplinary interplay of remote sensing and urban geography. The application and development of new conceptual approaches derived from the field of urban geography shall allow for purposeful value-adding of remote sensing classification products.

Required Qualification: Master related to remote sensing/geography/geoinformatics. Programming skills in R, Matlab, Python or C/C++ are required. Experience in processing of geodata data is required. Strong background in urban geography is expected. Open communication and team spirit are furthermore expected. The candidate should be able to work in a joint team at the Remote Sensing Technology Institute and the German Remote Sensing Data Center of DLR as well as self-reliant and to present results at international conferences

Advantageous Skills: Skills in GIS techniques.

English competence: High; see requirements on www.daad.de/dlr

Earliest Start Date: 01.04.2019

Application Deadline: Until position filled

Further Information: <http://www.dlr.de>
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