



Leibniz
Universität
Hannover

For many years image interpretation and remote sensing have been a main focus of research at IPI, the Institute of Photogrammetry and GeoInformation. In national and international co-operations we develop novel methodologies for exploiting multi-sensor remote sensing data for geological applications and environmental studies. More information about IPI can be found on our web site: <http://www.ipi.uni-hannover.de>.

We are currently looking for a

PhD student in Radar Remote Sensing (Salary group TV-L E 13, 75%).

The position is limited to 3 years, an extension is possible

Project description: Land subsidence in Taipei basin from remote sensing and numerical modeling.

As an important economic centre of Taiwan, the Taipei Basin suffers from severe subsidence resulting from excessive pumping. The main focus of the project is to develop a multi-scale and multi-sensor remote sensing-based approach using the integration of by now state-of-the-art satellite EO data, in-situ observations, GIS and advanced numerical modelling to characterize basin-scaled groundwater budget and its dynamics in the Taipei basin. Our partners include GFZ German Research Centre for Geosciences in Potsdam, and National University of Taiwan. The work is part of the Earth Observation research group at IPI and will significantly contribute to the institute research in this area.

Employment conditions

As the successful candidate you have an outstanding M.Sc. degree in remote sensing, geodesy, geophysics, or a related field. In addition, you are motivated to do first class scientific research; you have experience in Synthetic Aperture Radar (SAR) image analysis, geophysical modeling, and geospatial analysis for hazard and risk assessment due to land subsidence in urban areas. The ability to work independently, excellent communication skills and a very good command of the English language are further assets.

Part-time employment can be arranged upon request. As an equal opportunities employer, Leibniz Universität Hannover intends to promote women in the context of statutory requirements. For this reason suitably qualified women are specifically invited to apply. Equally qualified applicants with disabilities will be given preferential treatment.

Screening of the applications will begin on **January 2, 2024**. The position will be filled as soon as a suitable candidate has been found. Please send your application in digital form to the e-mail addresses mentioned below. Applications should include a CV, the full academic record as well as a Research Statement (one page) indicating your specific interest in the topic and discussing your personal interest and strengths for doing PhD research.

For further information, please contact Mahdi Motagh, motagh@ipi.uni-hannover.de, or Mahmud Haghshenas Haghghi, mahmud@ipi.uni-hannover.de who will be pleased to assist.

Information on the collection of personal data according to article 13 GDPR can be found at <https://www.uni-hannover.de/en/datenschutzhinweis-bewerbungen/>.