

Information extraction, modelling & communication PhD position in geo-humanitarian action

We are recruiting a PhD researcher within the Christian-Doppler Laboratory [GEOHUM](#), a collaborative research lab with Doctors without Borders [MSF](#) at the [Department of Geoinformatics](#). The Department of Geoinformatics is a well-established centre of competence in GIScience within the [Faculty of Digital and Analytical Sciences \(DAS\)](#) at the [Paris Lodron University of Salzburg](#), Austria. Learn more about us in this [video](#).

Topics for your PhD:

- Integrate AI-based methods and data fusion techniques (radar and optical) for geographical information extraction (building damages, settlement footprints, road infrastructure, flood extent, land use change etc.)
- Develop a space-time data model to structure EO-derived information in humanitarian applications
- Evaluate methods for assessing and communicating uncertainty in information delivery
- Apply best practice principles in open science and reproducibility

Your profile:

- MSc degree in geoinformatics, remote sensing, geography, computer science or related disciplines
- Experience in optical and radar analysis
- Familiarity with deep learning techniques
- Solid programming skills (Python, R)
- Enthusiasm in scientific work and publishing
- Solid communication skills, proficiency in English language

What we offer:

- A vibrant and international team
- Application-orientated basic research in geospatial analysis and Earth observation
- Support humanitarian operations with innovative geospatial information products

Terms and conditions:

- Submit your application until **05 June 2024**
- Starting date: 01 October 2024 (latest)
- PhD position: up to 75% employment (30 hours/week)
- Initial contract: duration is 24 months, with an option for extension
- Remuneration according to the Austrian University collective bargaining agreement (full-time gross salary per month min. € 3.578,80 (14 × per year, B1) based on 40 hours per week)

Please send your letter of motivation, CV incl. list of publications, documentation of your highest obtained degree, and referee contact(s) to

Dr. Zahra Dabiri (zahra.dabiri@plus.ac.at) and **Petra Füreder** (petra.fuereder@plus.ac.at).

General information:

General information about working at the PLUS can be found here:
<https://www.plus.ac.at/personalentwicklung/jobportal/>

The Paris Lodron University of Salzburg aims to increase the proportion of women among academic and general university staff, particularly in management positions, and therefore expressly encourages qualified women to apply. Women with equal qualifications will be given priority.

Persons with disabilities or chronic illnesses who fulfil the required qualification criteria are expressly encouraged to apply. For more information, please call +43/662/8044-2462 or visit disability@plus.ac.at.

In order to ensure gender-neutral wording, gender-specific articles, pronouns and adjectives are abbreviated in the text.

Unfortunately, travelling and accommodation expenses incurred in connection with the application procedure cannot be reimbursed.

Recruitment is subject to the provisions of the Universities Act 2002 (UG) and the Salaried Employees Act.