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## HeiGIT International Postdoctoral Fellowships for Climate Action Research

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*Dear Postdoctoral Scholars and Researchers,*

*You are a highly motivated researcher who loves spatial data science and open geodata? You want to use your expertise for stimulating Climate Action? You want to improve the availability and quality of open geographic information for Climate Mitigation and Adaptation and develop high-resolution spatial indicators or GIScience methods for open, non-profit applications in those areas? Then we actually might have a suitable and interesting opportunity for you!*

[HeiGIT gGmbH](#) (Heidelberg Institute for Geoinformation Technology) at Heidelberg University is pleased to announce a call for applications for a

### **Postdoctoral Fellowship (6 – 12 months)**

focused on GIScience research, with a special emphasis on work related to upscaling actionable geoinformation for climate mitigation and adaptation, especially in the areas of GHG emission inventories or/and active mobility. This fellowship provides an exciting opportunity for scholars to contribute to cutting-edge research and innovation in the field of geoinformatics, with a particular focus on leveraging and enhancing open geodata, especially Volunteered Geographic Information (VGI) and Remote Sensing for climate action.

About HeiGIT: HeiGIT gGmbH, is a leading applied non-profit research institute dedicated to advancing the field of geoinformatics. The objective of HeiGIT is to improve knowledge and technology transfer from fundamental research in geoinformatics to practical applications. Our vision is a better society and environment by improving open geoinformation and geoinformation technology. Our mission is to provide research and development to support decision making in the field of climate action, sustainable mobility and humanitarian aid. We accomplish this through open geoinformation, open methods, open software and close collaboration with our partners. Our work encompasses a wide range of applications, from developing innovative tools and methodologies to address societal challenges to promoting open geospatial data for the greater good.

### **Fellowship Overview:**

- Duration: 6-12 months (modifications negotiable depending on circumstances)
- Location: Heidelberg Institute for Geoinformation Technology (HeiGIT), Heidelberg, Germany
- Focus Areas: Geoinformation for Climate Action

### **Research Themes:**

Your work should contribute to one of our research topics listed below and be closely related to the current work at HeiGIT. This will allow to maximize synergies between you and the researchers at HeiGIT and the affiliated GIScience research group at Heidelberg University.

- **Climate Action:** Develop high-resolution spatial indicators and tools related to addressing climate change, including the development of methods and services for monitoring and mitigating its impacts. Our current focus is in the field of urban active mobility (walking, biking) and urban GHG emission estimates.
- **Open Geodata & VGI:** Contribute to developing methods and tools for the enhancement and utilization of open geospatial data, especially Volunteered Geographic Information (VGI) such as OpenStreetMap (OSM) for Climate Mitigation and Adaptation.

#### Eligibility:

- Scholars with a PhD or MSc in GIScience, computer science, geography, environmental studies, or related fields.
- Demonstrated in-depth geoinformatics research experience related to climate action, esp. utilizing and enhancing open geodata (esp. VGI) in those domains.
- Strong programming, machine learning or spatial data analysis skills.
- Excellent written and verbal communication skills in English.
- Team player, working closely together with colleagues at HeiGIT and GIScience Group at Heidelberg University.

#### Application Process:

Interested scholars should submit the following documents to [jobs@heigit.org](mailto:jobs@heigit.org):

- Curriculum Vitae (CV), including references and transcripts with grades
- Short cover letter outlining research interests related to the work at HeiGIT and relevant experience
- Sample of recent research work (published paper or thesis)
- Preferred timeframe (availability)

#### Benefits:

- Working with a motivated interdisciplinary team on topics relevant for the society and environment
- Access to state-of-the-art research facilities and resources
- Collaboration opportunities with leading experts in GIScience
- Networking with the international research community and relevant stakeholders in the respective domains

We look forward to receiving your applications and welcoming a diverse group of international scholars to contribute to impactful GIScience research at HeiGIT.

We stand for equal opportunities. We welcome all people regardless of age, origin, gender, sexual identity, religion or disability. Please note our [data protection information](#) for applicants.