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GIScience Research Group & HeiGIT · Institute of Geography · INF 368 · 69120 Heidelberg

GIScience Research Group
Heidelberg University
Prof. Dr. Alexander Zipf
<http://uni-heidelberg.de/gis>
<http://heigit.org>

Job advertisement Heidelberg University – GIScience

Postdoc / Senior Researcher: OpenStreetMap Road Quality Analysis

You are interested in enhancing methods for analyzing & improving OpenStreetMap data? You are an experienced Spatial Data Scientist innovating geoinformatics methods & workflows? You have profound hands-on experience on contributing to & working with OpenStreetMap (OSM) data?

We are looking as soon as possible for a senior researcher / Postdoc (m/f/d) in the context of a project aiming at developing, evaluating & advancing methods & technologies for **OSM data quality analysis**. The application domain will be **routing & navigation**. The goal is to innovate robust & meaningful approaches for evaluating OSM data quality for transportation (fitness for purpose), which actually can be applied in practice. Ensuring transferability of the methods to usage around the globe is a key focus.

You will be working closely together with the teams at both the *GIScience Research Group* at Heidelberg University, as well as the associated *Heidelberg Institute for Geoinformation Technology* (HeiGIT.org). At HeiGIT a team is already working at developing a comprehensive open source framework for OSM data analysis (ohsome.org). This can be a base for further developments in the analysis of OSM data quality targeted to routing & navigation. In addition GIScience & HeiGIT jointly develop the open source OSM routing platform *openrouteservice.org* which allows detailed insights & discussions about realizing OSM based mobility services.

We offer an attractive position (up to 100%, part time possible if preferred) in an interdisciplinary dynamic team and in a cutting-edge research field. The department is, among others, a member of the *University's Interdisciplinary Center for Scientific Computing (IWR)* and a founding member of the *Heidelberg Center for the Environment (HCE)*. The affiliated institute *HeiGIT gGmbH* translates the research into practical applications. The *Heidelberg University of Excellence* (top 3 national university ranking) offers a particularly stimulating interdisciplinary research environment in one of Germany's most attractive cities, with many attractive personal development & education opportunities.

We expect an PhD and above-average university degree preferably in one of the subjects such as geoinformatics, computer science, data science, geography or similar disciplines. In addition to a strong team spirit & high motivation, excellent & demonstrated broad methodological skills & research experience in GIScience are required, e.g. in topics such as Spatial Data Science & Machine Learning. In addition we expect a deep understanding of OSM, programming skills (e.g. Python, Java or R), the ability to work effective & efficient in a team, as well as excellent communication & presentation skills.

The position is to be filled as soon as possible and is initially limited to 3 years, with potential extension to 6 years. The remuneration is according to TV-L E13. Please send your meaningful application documents (cv, certificates, references, etc.) as soon as possible digitally to zipf@uni-heidelberg.de.

We are looking forward to your application!