

You genuinely enjoy developing open source Geoinformation Services used by thousands on a daily basis? You are a highly motivated Java Backend Developer and algorithm designer? And you love using and enhancing OpenStreetMap for high-performance GI services for global coverage? Then we actually might have a suitable and interesting job for you.

Software Engineer OSM Routing Services,

HeiGIT gGmbH is a non-profit start-up aiming at technology transfer and applied research in the area of geoinformatics, especially in areas such as humanitarian aid or other non-profit goals for the benefit of society and the environment.

To this end, we are looking for a motivated and experienced Software Engineer in the field of OSM Routing Services (Java Backend). Depending on your experience

Your tasks within the field of **Route Planning & Smart Mobility** are related to at least one of the following areas

- Agile development of innovative routing services, algorithms and extensions for the well-known open source project <http://openrouteservice.org> (Java)
- Extension of the global services infrastructure of various location-based services using OSM
- Development of highly performant algorithms, methods and GI web services, especially for the analysis and data enrichment of heterogeneous global geodata sets

As a member of a self-organizing team, you'll have a large influence on both how you work and what you work on. Close collaboration and communication with your team members, ORS stakeholders and users is your favorite way of working. Your in-depth knowledge of your favourite language and tools will be valued, but you'll also be expected to help with whatever the team needs to work towards its goal.

Your Expertise

- A highly-motivated backend developer with solid experience in Java and web development (HTML, CSS, JavaScript).
- Familiarity with agile development practices like test-driven development, continuous integration, pair-programming etc. is beneficial.
- An above-average university degree in one of the subjects such as Geoinformatics, Computer Science, Geography, Mathematics, Physics or similar.
- German language skills preferred, but English only possible.

Since the team's responsibilities comprise quite a few tools and services, you should be excited, to familiarize yourselves with all the relevant technologies if needed. Current technologies include, but are not limited to Java, Spring Boot, REST, JavaScript, CSS, HTML, Vue.js, Docker, Python, Git and WordPress. The willingness to learn should also comprise the openrouteservices' problem domain which is routing, OpenStreetMap data and geographic information systems (GIS) in general.

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HEIDELBERG INSTITUTE
FOR GEOINFORMATION
TECHNOLOGY

We offer

an attractive position in an interdisciplinary team in a highly dynamic and growing area. HeiGIT gGmbH is cooperating closely with the GIScience Research Group at Heidelberg University, which is member of the Interdisciplinary Center for Scientific Computing (IWR) and the Heidelberg Center for the Environment (HCE) at Heidelberg University. We offer a stimulating interdisciplinary research environment with many personal development opportunities. All HeiGIT employees can, in agreement with the rest of the team, work from home or remote up to half of their time.

HeiGIT receives core funding by the Klaus Tschira Foundation (KTS).

The position is to be filled as soon as possible and for administrative reasons initially limited to 3 years - with the option of sustainable extension. Please send your application including CV, certificates, references, etc. in digital form as PDF as soon as possible to Stefan.gumbrich@heigit.org.

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