



The ILS - Research Institute for Regional and Urban Development is a non-university institute in Dortmund, Germany, that studies the dynamics and polymorphy of urban transformation in international comparative research. The objective of our application-oriented basic research is a better understanding of new processes of urbanization in inter- and transdisciplinary studies. We engage with practitioners, politicians and stakeholders in society to develop a better common understanding of socially, ecologically and economically sustainable transformation and design of urban areas on multiple scales.

There is a job opening in the area of „Geoinformation and Monitoring (GuM)“ in the institute to be filled by 1 December 2018 with a temporary position in the BMVI/mfund project “Added Value of Copernicus Data for Spatial Monitoring” (incora), subject to final approval of project funding. We are looking for an

Academic Research Assistant

for the period from **01.12.2018 to 30.11.2021** with an average of 40 working hours per week. The candidate can pursue a PhD doctoral degree in this position.

Tasks:

- Researching and analysing geodata for spatial monitoring of urban and transport areas
- Developing concepts of spatial monitoring including innovative indicators for urban and transport area development
- Building a project geodata infrastructure incl. metadata management
- Development of processing tools and workflows for indicator calculation based on geodata products from remote sensing (Sentinel), administrative geodata and data products from regional and municipal statistics
- Application of (geo-)statistical methods for aggregation and analysis of indicators
- Cooperation in working groups and networks, incl. organisation of meetings and workshops
- Presentation of research results at conferences and in publications

Requirements:

- Professional skills as advanced user of geoinformation systems
- Competencies in application and management of data in (relational) (geo-)databases
- Expertise in application development, specifically for the automation of geoprocessing workflows
- Knowledge in (geo-)statistics, remote sensing procedures and land use classification algorithms
- Advanced experience in administrative geodata models and structures for Germany and the European Union
- Expertise in developing concepts for indicators of spatial development
- Experience in third-party funded project management
- Aptitude for knowledge transfer of spatial monitoring results and their positioning in current spatial planning discourses
- Fluent in spoken and written German and English
- Proficiency in MS Office Products

Enumeration is in line with the tariff part TV-L 13 of the German administrative tariff structure. ILS places high value on equal opportunities for staff, applications by women are highly encouraged. Applications by disabled people will be treated preferentially in the case of comparable suitability.

Please email your application with references and documents by 19 October 2018 to bewerbung@ils-forschung.de, using the reference number **GuM/2018/1**.