



## Research Fellow in Urban Data

Starting: 01.10.2018 | Reference No. ISU18064

Become an integral part of one of the leading research institutions in Germany  
Develop integrated analysis and planning tools based on conceptual modeling approaches  
Part-time, up to 75% fixed term for 2 years (TV-L E13)

### ABOUT THE OPPORTUNITY

The Institute for Sustainable Urbanism ISU is a think-tank and design laboratory headed by Prof. Dr. Vanessa Miriam Carlow based at TU Braunschweig – one of Germany's leading Technical Universities. ISU research, teaching, and discourse focus strategies and tools for sustainable urban development in the context of worldwide urbanization. Building up inter- and transdisciplinary projects within the TU Braunschweig research line FUTURE CITY, ISU teams up with scientists from environmental and social science, engineering, psychology, political science, and informatics, and cooperates with more than fifty cities, municipalities and NGOs worldwide. In its continuous strive toward progressive research, ISU is building up a state of the art, multidisciplinary research and competence center on urban research rooted in the digital realm.

We are seeking a candidate for a two years fixed term (part-time up to 75%) position to work on the topic of **urban data** within the research projects **D4UM – Data4UrbanMobility** and **ISUrF-Hub**: Establishment of a research group on industrial symbiosis and urban factories in Singapore, both funded by the German Federal Ministry of Education and Research (BMBF). Candidates with experience in the following work fields are strongly encouraged to apply:

### KEY RESEARCH THEMES

- **Urban Complexity:** Research and development of analysis and design tools for complex urban systems, e.g. human mobility, energy and material flow, life cycle assessment.
- **Urban Form:** Urban and architectural design solutions for integrated, human-centered, resource-efficient urban development, e.g. design parameters, design methods and tools.

**Application Areas:** Urban design, urban / regional planning, architecture, urban production, sustainable mobility

### ABOUT YOU

We are looking for exceptional candidates to conduct high impact research with

- a Master Degree (or equivalent) in architecture, urban design, urban planning, geoinformatics, geography (or equivalent),
- demonstrated expertise in urban research related to the key research themes and application areas,
- evidence of capacity to work as part of a multidisciplinary team,
- excellent knowledge in the application of domain-specific software and hardware (e.g. GIS, MATLAB, R, VR, MR),
- a track record for securing external funding and performing high quality, independent collaborative research,
- English and German excellent written and verbal communication skills.

The position will be for a period of two years, with further employment subject to secured funding availability. In case of adequate performance, the opportunity is given to pursue a PhD degree. The remuneration is determined according to the assignment of tasks and fulfillment of personal requirements up to pay group 13 TV-L.

### ABOUT TU BRAUNSCHWEIG

Technische Universität Braunschweig is the academic center of Braunschweig, City of Science, which lies in the heart of one of Europe's most active research regions. TU Braunschweig's faculties comprise a comprehensive engineering branch and a strong natural sciences branch, closely linked with business sciences, social sciences, humanities and educational sciences. TU Braunschweig is part of TU9 – the group of leading technical universities in Germany.

The TU Braunschweig fosters diversity and inclusion. Applications from people of culturally diverse backgrounds are much welcome. Applications can be in German or English. TU Braunschweig strives to diminish under-representation as defined by the NGG in all areas and positions. Therefore, women in particular are encouraged to apply. Where candidates have the same qualifications, preference will be given to candidates with disabilities. Applications not considered can only be returned against an addressed and sufficiently stamped return envelope. Application and travel costs are non-refundable. Personal data will be stored in connection with the recruitment and hiring process.

**Interviews with selected candidates will take place at TU Braunschweig on 21<sup>st</sup> and 22<sup>nd</sup> August 2018.**

**Send your comprehensive application incl. CV, publication list and/or portfolio (digital or printed) till 31<sup>st</sup> July 2018:**

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