



At HafenCity University Hamburg is subject to the provision of found by the donor is seeking to fill the following position in the field of Bauingenieurwesen as soon as possible

Research Associate (m/f/d) – in the project: „Next Generation Networking (NGCN)“

Pay group 13 TV-L

to support research fulltime. The position is limited until 31.12.2027.

About us

The HafenCity University Hamburg, University of Architecture and Metropolitan Development (HCU) is a university that focuses on the built environment. The HCU unites all aspects of building and design, engineering, and natural sciences as well as geoscientific and social sciences under one roof.

The German Center for Mobility of the Future (DZM), funded by the Federal Ministry for Digital and Transport (BMDV), brings together expertise from science, industry, society, and public administration, contributing to mobility research across four research and innovation hubs. Hamburg, with the HafenCity University Hamburg (HCU) as the network coordinator, is one of the four funded locations nationwide.

The Hamburg project site, the Hanseatic Wireless Innovation Competence Center (HAW-ICC), conducts interdisciplinary and transdisciplinary projects ranging from fundamental research to application-oriented research and development. HAWICC focuses on the built environment of mobility, including infrastructure in conjunction with wireless technologies and artificial intelligence (AI). Through close collaboration with other DZM locations across Germany (e.g., Karlsruhe Institute of Technology (KIT)), a nationwide network is being established, offering medium- and long-term benefits to the position holder.

The overarching initiative, Next Generation City Networking (NGCN), is the second sub-project within HAWICC. It involves interdisciplinary collaboration between nine professorships/departments at the HafenCity University Hamburg (HCU) and Hamburg University of Technology (TUHH). In addition, partners from industry and society are also involved. The NGCN project, with the HCU as the consortium leader, contributes to the infrastructure side of mobility by integrating novel wireless technologies and AI. For a specific use case—route optimization for emergency vehicles—as well as for overarching objectives in planning the city of short and fast routes, a digital twin of an urban district is being developed. This twin merges static and dynamic data to create a real-time urban traffic situation model. The position is assigned to the Professorship of Prof. Dr.-Ing. Youness Dehbi.

Here you can find further information about the [HCU](#) and the [Arbeitgeberin Freie und Hansestadt Hamburg](#) as an employer.

Your tasks

- modelling of urban data and processes for smart cities
- development of a digital, semantic 3D city model with sensor information
- development of a sensor-based IoT and data infrastructure for capturing, analyzing, and visualizing urban mobility and environmental data

Your profile

mandatory requirements

- an academic university degree (master's degree or comparable) in geoinformatics, geodasy or a comparable field of study
- strong programming skills, e.g., in Python

additional requirements

- teamwork skills, sense of responsibility, and goal orientation
- familiar with machine learning methods
- strong communication skills

Benefits

- workplace at an attractive location in HafenCity
- varied work in a university environment in cooperation with international scientific partners
- a family-friendly university that supports its employees in balancing work and family life
- support for professional and personal development through a wide range of training and continuing education opportunities
- other benefits suchas discounts in the student union canteens.

How to apply

In addition to an informative cover letter in which you explain to what extent you meet the requirements profile, we need the following documents from you:

- curriculum vitae in tabular form,
- proof of vocational training,
- current appraisal or current certificate (see also notes on the application and selection process),
- relevant proof of further training,

- proof of a severe disability or equal status in the selection process,
- declaration of consent to inspect your personnel file, stating the office responsible for your personnel file (only for applicants from the public sector).

For questions and further information, do not hesitate to contact Prof. Dr. Youness Dehbi +49 40 428275328.

The applicant's classification in regard to the level of experience within the advertised TV-L pay group is based on the candidate's individual work experience and reviewed by the HR department. Legally binding statements can only be made by the HR department of the HCU.

Please send your application (including CV, cover letter, and copies of relevant certificates), no later than 10.03.2025 (preferably by email as one PDF file) to:

HafenCity Universität
Personalverwaltung
Stellen-Nr.: 2025-13
Henning-Voscherau-Platz 1
20457 Hamburg
E-Mail: HCU-bewerbung@vw.hcu-hamburg.de

Please include the reference number „**2025-13**“ in your application.

Please be aware that in case of an invitation to an interview, HCU will not be able to cover any expenses for travel and lodging.

Due to the high number of applicants, the HCU will not be able to return application documents. Therefore, please do not submit originals of certificates. If you add a post-paid envelope, the HCU will return your application documents.