



At HafenCity University the following position is expected (subject to funds) to be available in our cooperation project UNITAC Hamburg (The United Nations Innovation Technology Accelerator for Cities)

**Research Associate (m/f/g) in the project “UNITAC”**  
**Data Scientist Ukraine**  
Pay group 14 TV-L

at the earliest possible date to support in research with 100% of the regular working time. The position is limited until 31.12.2025. Presence in Hamburg is required for this position.

**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.

UNITAC Hamburg is a partnership between the United Nations Human Settlements Programme (UN –Habitat), the United Nations Office for Information and Communication Technology (OICT) and HafenCity University. In this project, UNITAC in collaboration with the City Science Lab at HafenCity University, explores the potential of digital technologies, data, and innovations for sustainable urban development. The project works with a variety of applied, innovative and prototyping research methods and develops innovative solutions primarily for cities located in the Global South. These methods aim to accelerate the achievement of the UN Sustainable Development Goals (SDGs) related to cities and urbanization.

The BMZ-funded UNITAC project »Just transitions in vulnerable places – towards inclusive, smart and resilient urban recovery in Ukraine« aims to develop a digital urban data platform and engage with and support national, sub-national and local government institutions to improve the efforts for climate resilience and smart urban recovery of the communities affected by the crisis in Ukraine by evidence-informed and participatory decision-making processes towards localizing the 2030 Sustainable Development Agenda and the New Urban Agenda.

The position is assigned to the professorship of Prof. Dr. Gesa Ziemer, who is also the academic lead of UNITAC Hamburg.

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

## Your tasks

Your main tasks will be linked to the applied research and development of sustainable technology and data solutions for cities in Ukraine and the partner organisations UN-Habitat and OICT. These solutions will be implemented and tested in the Ukrainian context, focusing on post-war recovery. Your focus will be on the three thematic areas:

1. open, transparent, and participatory management of data and digital platforms
2. mapping, spatial analysis, data analytics and visualization
3. people-centered smart cities

You will work in an interdisciplinary team of urban development, innovation, and technology specialists with a passion for sustainable cities, international development cooperation, and digital innovation.

## Your profile

### mandatory requirements

- a completed academic degree (Master's or equivalent) in Data Science, Computer Science, Geoinformatics, or topic-related subjects

### additional requirements

- min. 2 years of data-related expertise in interdisciplinary and multi-stakeholder settings as well as advanced experience of implementing open data management/ platforms and (geospatial) data standards (e.g., OGC)
- advanced experience in computational science, data science, visualization, and interfaces, as well as knowledge about data collection methods and tools in addition to data cleaning, transformation, and modelling, as well as data extraction from different resources: REST APIs and web scraping
- previous experience in ETL process: data extraction, orchestrating data pipelines, and data transformation using Apache Airflow (other data orchestration tools would be an advantage)
- advanced programming skills in Python (other programming languages such as R, JavaScript, C++, etc. would be an advantage) as well as knowledge of applied statistics, machine learning algorithms (classification, prediction, and deep learning methods), and at least one machine learning tool (e.g., TensorFlow, Pytorch, or Keras)
- knowledge of cloud-based infrastructure, ideally Microsoft Azure
- experience in developing creative solutions at the intersection of technology and urban development
- fluent in written and spoken English, knowledge of Ukrainian is desirable

## Contact

For questions and further information, do not hesitate to contact Anja Berestetska at +49 (0) 40 42827-5621.

The applicant's classification regarding the level of experience within the advertised TV-L pay group is based on the candidate's individual work experience and is 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 **21.12.2023** (preferably by email as one PDF file) to:

HafenCity Universität  
Personalverwaltung  
Stellen-Nr.: 2023-143  
Henning-Voscherau-Platz 1  
20457 Hamburg  
E-Mail: [HCU-bewerbung@vw.hcu-hamburg.de](mailto:HCU-bewerbung@vw.hcu-hamburg.de)

Please include the reference number „**2023-143**“ 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.