

Mainz University of Applied Sciences is characterized by excellent quality standards in teaching and research. Students receive practical training in small groups, and there is personal, open and friendly interaction between professors and students. We work on issues of applied research where architecture, architectural history, civil engineering, and geoinformatics intersect, and we are committed to the practice-oriented development of young scientists in research and teaching.

infraView GmbH develops and operates one of the world's largest IoT platforms for condition monitoring and predictive maintenance in the rail industry. infraView GmbH has an extensive product portfolio in the field of infrastructure asset monitoring and construction monitoring.

Mainz University of Applied Sciences, School of Engineering, and infraView GmbH are seeking to jointly fill the following qualifying position (*Qualifizierungsstelle*) for the 2022/2023 winter semester (starting September 1, 2022):

**Research and Teaching Professorship (*Tandem-Professur*)  
in the field of Construction Informatics (m, f, x)  
(employment under private law / three-year fixed term)**

We provide you with the opportunity to acquire three years of non-university professional experience to qualify for a professorship at a university of applied sciences and agree on an accompanying employee development concept with you. The position includes 50% employment at Mainz University of Applied Sciences (remuneration based on pay grade W 1) and 50% employment at infraView GmbH (pay grade E 14 based on the Hessen Collective Wage Agreement (TV-L)). The professorship will be financed for a limited period of three years by the federal and state program *FH-Personal*, a funding program for the recruitment and development of professorial staff at universities of applied sciences.

At Mainz University of Applied Sciences, the professorship will oversee and continue to develop the following key areas in particular, both in teaching and in applied research:

- Information models for infrastructure and buildings
  - Standardization of information models for different types of use (from user stories in the fields of design, construction, operation, and maintenance, to UML models and their subsequent implementation in software).
  - Digital twin technologies
  - IFC standards, in particular IFC Rail and Road 4.3ff
  - Standard object catalogs – design and implementation

- Interface technologies for the Building Information Modeling (BIM)-method
  - Scripting languages for data exchange between different closed and open BIM software packages
- Design and operation of BIM software infrastructures for different company sizes (SME+ )
  - Standard providers
  - openBIM
  - cloud vs. on-premise

At infraView GmbH, the position will be integrated into the Permanent Way Department, where the application of BIM and digital twin models in existing and structural condition surveying, along with the mapping of objects throughout the lifecycle from planning and construction to operation and maintenance, will be addressed in a practice-oriented manner.

The requirements for this teaching and research professorship (*Tandem-Professur*) are:

- successful completion of a university degree in subjects with information technology or computer science components, architecture or civil engineering,
- an aptitude for teaching, separate documentation of which is required,
- and a particular talent for scientific work, usually demonstrated by a qualified doctorate, but also by outstanding subject-related achievements in practice.

In addition, we are looking for an individual who has very good verifiable skills in state-of-the-art software and model development with the BIM method and the development of BIM software infrastructures. In addition, in terms of basic skills, the candidate must have sound knowledge of at least one common programming language (such as Java, Javascript, C++, C#, Python), of a standard database system and, if possible, in the development of APIs.

We also expect the willingness to take on related or cross-curricular teaching subjects and to participate in interdisciplinary projects. The ability and willingness to teach classes in English must be demonstrated in the application and by means of a trial class. The use of digital media in teaching should be a familiar skill.

The hiring requirements for a research and teaching professorship (*Tandem-Professur*) can be found in Section 54 and Section 56 of the [Higher Education Act of the State of Rhineland-Palatinate](#) (only available in German).

Mainz University of Applied Sciences is certified as a family-friendly university and supports balancing family and career, for example, through flexible working hours during the lecture-free period. infraView GmbH also strives to ensure the best possible work/family balance.

The equality strategies of Mainz University of Applied Sciences and infraView GmbH envision an increase in the proportion of women, which is why we are particularly pleased to receive applications from qualified female candidates. If you have any questions, please contact the Equal Opportunity Officer of the School of Engineering at Mainz University of Applied Sciences.

Qualified candidates with disabilities (*Schwerbehinderte*) will be given preferential treatment.

The state of Rhineland-Palatinate and Mainz University of Applied Sciences are committed to a teaching concept based on the expectation of a high degree of presence of the teaching staff at the university location.

Please submit your application, including a letter of motivation, a curriculum vitae in table form list of previous teaching activities, list of scientific achievements, project portfolio and copies of certificates, combined in one PDF file in the above-mentioned order of the documents with a maximum of 30 pages (last name\_first name\_completeapplication.pdf) **by November 15, 2021** to:

The President of Mainz University of Applied Sciences  
Prof. Dr. Susanne Weissman  
Lucy-Hillebrand-Straße 2  
55128 Mainz

Please submit all required documents (as a PDF) electronically using the following upload link:  
<https://seafire.rlp.net/u/d/5a7424c140684e84a044/>

If you have any questions regarding the position, please contact the following people:

Subject-related questions for Mainz University of Applied Sciences:

School of Engineering

Prof. Dr.-Ing. Karl-Albrecht Klinge

Mail:  
[karl-albrecht.klinge@hs-mainz.de](mailto:karl-albrecht.klinge@hs-mainz.de)

Subject-related questions for infraView GmbH:

Management

Jan Klemp

Mail:  
[jan.klemp@infraview.net](mailto:jan.klemp@infraview.net)

Organizational questions:

HR & Legal Department  
of Mainz University of Applied Sciences

T: 06131 628-7305

Mail:  
[stellenausschreibungen@hs-mainz.de](mailto:stellenausschreibungen@hs-mainz.de)