



The University of Rostock is the oldest university at the Baltic Sea and offers a diverse, varied and challenging position in a tradition-conscious, yet innovative, modern and family-friendly university in a lively city by the sea.

Chair of AI for Sustainable Construction is filling the following position in the Projekt "GenAI4BIM":

## Scientific Research Scholar (m/w/d) – Artificial Intelligence, Civil Engineering



**Start Date**  
as of 01.11.26



**Working effort**  
Full-time



**Remuneration**  
Monthly Scholarship



**Location**  
Rostock

**Limitation**  
48 Month

**Application Deadline**  
31.06.2025

Please send applications to: Do not hesitate to contact us for further information:

Prof. Dr. Jörn Plönnigs  
Phone: 0381/498-3560  
E-Mail: [Joern.Ploennigs@uni-rostock.de](mailto:Joern.Ploennigs@uni-rostock.de)

The project GenAI4BIM is a joint research project with the Technical University Munich and Carnegie Mellon University on developing novel generative AI approaches for sustainability-aware Building Models. It is funded by the TUM Georg Nemetschek Institute on behalf of the Georg Nemetschek Foundation.

### THESE ARE YOUR TASKS:

- Research on AI methods for generating anonymized, design-sensitive graph embeddings from CAD data
- Development of models that capture design intent, topology, and contextual information (e.g., ontologies, graph neural networks)
- Development of anonymization techniques for embeddings
- Working collaboratively with research partners at TUM and CMU
- Validation of methods on synthetic and real-world datasets, including transfer learning
- Publish research results in top conferences and journals

### THIS MAKES YOU A GOOD FIT:

- Completed university degree (diploma, master's degree or comparable degree) in computer science, artificial intelligence, civil engineering, or a related field, with the best possible grades
- Confident knowledge of English language, both written and spoken
- Knowledge in machine learning and generative AI approaches
- Proof of publication capability (at least one academic publication) is desirable
- Excellent communication skills for presenting and publishing research findings
- Strong teamwork and collaboration skills for working in an international and interdisciplinary environment

### WE AS AN EMPLOYER:

Equal opportunities are important to us. We welcome applications from suitable severely disabled people or people from traditionally underrepresented groups. We aim to increase the proportion of women in research and teaching and therefore encourage suitably qualified women to apply. We welcome applications from people of other nationalities or with a migration background.

### WE OFFER YOU:



Opportunity for  
Promotion  
Family office



Career advice for young  
scientists  
Welcome Centre



Flexible working hours  
Mensa - Student Tariff