System Modeler (m/w/d)

At the Technical University of Munich, School of Life Sciences, a full-time position of a System Modeler (m/f/d) is available as of June 1, 2023 within the framework of a Research Training Group funded by the German Research Foundation (DFG). The position is limited to one year. There is a possibility of extension within the duration of the Research Training Group.
The Research Training Group "Urban Green Infrastructure - Training Next Generation Professionals for Integrated Urban Planning Research" aims to explore innovative approaches for livable, sustainable and climate resilient cities through green infrastructure in an inter- and transdisciplinary way. More information about the research training group and the research topics can be found at:
Urban Green Infrastructure - Research Training Groups (tum.de)

Your responsibilities:
The system modeler plays a central role in the development of a multidisciplinary system model based on the thirteen PhD projects that address green infrastructure issues. Key tasks are:

1. Develop an integrative systems approach in collaboration with the Post-Doctoral Researcher of the RTG; the PhD candidates, the Principal Investigators, as well as visiting scientists; the systems approach will qualitatively and quantitatively map key processes and ecosystem services of green infrastructure with input from the PhD studies, enable the modeling of scenarios, and help to evaluate them using key indicators in order to develop transformative governance strategies;
2. Support the Post-Doctoral Researcher in coordination of the RTG, as well as management and further development of the content of the qualification program for PhD candidates; s
3. Promote cooperation with the City of Munich and other partners in the field;
4. Collaborate on scientific and popular science publications, events and media.

Your background:

- Knowledge in one or more of the following areas: qualitative or quantitative system modeling, (spatial) scenario modeling, complex indicator approaches, knowledge in urban or urban open space planning;
- An above-average degree in a scientific field qualifying in the topic of the research training group;
- High level of performance based on independent conceptual and scientific work resulting in internationally recognized publications;
- Ability and willingness to provide technical support to a larger interdisciplinary research team; this requires excellent communication and facilitation skills, including visualization, creativity, organizational skills, and openness, as well as intercultural skills; experience in program languages such as Python and R
- Excellent oral and written expression skills in English; German language skills are an advantage.

Our offer:
We offer a full-time position as a researcher. The position is limited to one year with the option of extension within the duration of the Research Training Group. Employment is with appropriate remuneration according to the collective agreement for the public service of the Länder (TV-L). The promotion of gender and diversity equity is of particular concern to us. The university strives to increase the proportion of women. Qualified women are therefore strongly encouraged to apply. Severely disabled persons are given preference in the case of essentially equal suitability and qualifications.

Spokesperson:
Send us your application documents (letter of motivation, curriculum vitae, references) including a brief description of your previous activities as a PDF file (file name: SystemModeler_Name.FirstName.pdf) by 30.04.2023 to:
Maria Thole: maria.thole@tum.de

Please direct any technical and organizational queries about the Research Training Group to the spokesperson:
Prof. Dr.-Ing. Stephan Pauleit, pauleit@tum.de

Note on data protection:
In the course of your application for a position at the Technical University of Munich (TUM), you will be transmitting personal data. Please refer to our data protection information in accordance with Article 13 of the General Data Protection Regulation (DSGVO) regarding the collection and processing of personal data as part of your application. By submitting your application, you confirm that you have taken note of TUM's data protection information.
https://portal.mytum.de/kompass/datenschutz/Bewerbung