Technical University of Munich (TUM) is one of Europe's leading research universities. Since its founding in 1868, it has been committed to excellence in research and teaching at the highest international standards.

The Computing Education Research Group at **TUM** is looking for a

Research Associate (m/f/x)

in Munich (100%, TV-L E13, from 01.10.2025)

About us

The DFG-funded Collaborative Research Centre **SHARP** 'Simulation-based learning in higher education: Advancing research on process diagnostics and personalised interventions' contributes to theory-building on personalising learning using simulations in higher education. As a joint research context, SHARP focuses on diagnosing and intervening as two highly relevant professional practices in many academic professions.

In the subproject **A04** the topic of fostering diagnostic and intervention skills for programming & debugging situations for pre-service computer science teachers is investigated. The open position is located at the Computing Education Research Group (Prof. Tilman Michaeli).

Your tasks and responsibilities

- Your responsibility will be to develop and adapt a simulation in line with teachers' diagnostic processes and to investigate its effectiveness in facilitating learning.
- Your tasks will include planning and conducting empirical studies on simulation-based learning, supervising student qualification theses, and contributing to scientific publications.

Your qualification

- You have an excellent Master´s degree (or equivalent) in the field of computing education, computer science, or related fields.
- You are interested in interdisciplinary collaboration and working in research teams.
- You have strong foundational knowledge of social science research methods and statistics.

- You have experience in planning and conducting empirical studies, ideally in the field of programming/debugging education.
- Experience with eye-tracking and multimodal process analyses would be an advantage.
- You have very good written and spoken English skills and very good written and spoken German skills.

Benefits

- We offer the opportunity to to obtain a doctorate in computing education.
- Contributing to the CRC SHARP, you will become part of an interdisciplinary group of experts working in an excellent research environment to significantly advance higher education theory and practice.
- The CRC provides all its members with tailored support and supervision measures, including special support for international researchers.
- You will be paid an attractive salary at the payscale 1 FTE of TV-L E13. Your contract will be initially limited to 3.75 years.
- Your workplace is centrally located in Munich and easily accessible by public transportation.

We welcome applications from women and other groups that are currently underrepresented in the academic system.

People with disabilities who are equally as qualified as other applicants will receive preferential treatment.

Contact

Your detailed application includes a cover letter, your CV and copies of your transcripts and certificates as a single PDF.

Please send your application by June 16th to Prof. Tilman Michaeli, tilman.michaeli@tum.de.

If you have any questions, please contact Tilman Michaeli.