

Hier  
entsteht  
Zukunft!



Foto: Oliver Dietze



Saarland University is a campus university with an international reputation for research excellence, particularly in computer science and in the life sciences and nanosciences. The university is also distinguished by its close ties to France and its strong European focus. Around 17,000 students, studying over one hundred different academic disciplines, are currently enrolled at Saarland University. Saarland University is officially recognized as one of Germany's family-friendly higher-education institutions and with a combined workforce of more than 4000 it is one of the largest employers in the region.

The Department of Computer Science is inviting applications for the following position commencing **at the earliest opportunity**.

## Academic research assistant (m/f/x)

**Reference number W2225**, salary in accordance with the German TV-L salary scale<sup>1</sup>, pay grade: E13 TV- L, duration of employment: 36 months (Ph.D. position) or 24 months (Postdoc position), volume of employment: up to 100 % of standard working time.

### Workplace/Department:

Department of Computer Science

Prof. Tomohiro Nagashima is looking for a talented Ph.D. student or Post-doctoral researcher in his newly-established group focused on user-centered learning sciences and technology research. This position will conduct self-directed research projects in one or more of the areas below with Prof. Nagashima and his research team.

- Designing for and supporting student learning of 21st-century skills and adaptive expertise (e.g., self-regulated learning) using AI-based learning technologies (e.g., Intelligent Tutoring Systems)
- Using new technologies (e.g., VR) to design and develop engaging learning activities (e.g., educational games) in mathematics
- Applying learning analytics approaches to investigate cognitive and other aspects of human learning
- Co-designing innovative learning activities and technologies with students in primary and secondary schools, school teachers, and parents

The focus and details of research projects will be discussed and determined after employment, based on the candidate's qualifications and interests. It is possible and encouraged to pursue original research ideas in related

<sup>1</sup> TV-L = collective agreement on remuneration of public sector employees in the German *Länder*

areas and there is a lot of flexibility in research topics. For more information about Prof. Nagashima's work, please visit: <https://tomonag.org/>. This position comes with 4 hours of teaching load per week (which includes mentoring master's and bachelor's students). Research activities within the university will be conducted in English. Knowledge of the German language would be helpful, but not required. The start date is flexible; we are happy to discuss and set a start date that works best for the candidate.

### **Job requirements and responsibilities:**

- Design and develop learning technologies and learning activities using participatory design approaches with stakeholders (i.e., school teachers, students, and parents)
- Plan and conduct user studies with students, teachers, and parents
- Plan and conduct classroom-based experiments with teachers and students
- Analyze qualitative and quantitative data on student learning, perception, engagement, and emotion. Conduct data mining and learning analytics research to understand human learning
- Write scientific papers for conferences and/or journals and present findings to a wider range of audience
- Mentor bachelor's and master's student assistants in the lab and teach a small seminar course

### **Your academic qualifications:**

- For the PhD position: Completed a master's degree in one of the following fields or in a related field: Computer Science, Learning Sciences, Human-Computer Interaction, Psychology, Education Science, and Cognitive Science
- For the Postdoc position: Completed a doctoral degree in one of the following fields or in a related field: Computer Science, Learning Sciences, Human-Computer Interaction, Psychology, Education Science, and Cognitive Science
- For both positions: Have skills in one or more of the following areas: software development (e.g., HTML, CSS, JavaScript), HCI design and research (e.g., participatory design, user research), experimental design and statistical analyses of quantitative data, learning design, data mining, and learning analytics

### **The successful candidate will also be expected to have:**

- Advanced software development skills and experiences
- Teaching experiences or experience working with school-aged students
- Participatory design research experiences with education stakeholders
- Prior conference or journal publications
- Strong verbal and written communication skills in English
- Basic German skills (very optional, but nice to have)

### **What we can offer you:**

- A flexible work schedule allowing you to balance work and family, among other things the possibility of teleworking
- Secure and future-oriented employment with attractive conditions
- A broad range of further education and professional development programmes (for example language courses)
- An occupational health management model with numerous attractive options, such as our university sports programmes
- Supplementary pension scheme (RZVK)
- Discounted tickets on local public transport services ('Job-Ticket Plus' of the saarVV)

We look forward to receiving your **meaningful online application** (in a PDF file) by **February 24 (Friday), 2023** to [bewerbung@uni-saarland.de](mailto:bewerbung@uni-saarland.de). To apply please submit your CV (with a list of any publications and contact information

of two references, no page limit) and a cover letter (2 pages maximum) that describes your research interests and relevant experiences. Please include the reference number **W2225** in the subject line of the e-mail.

If you have any **questions**, please contact us for assistance. Your contact:

Herr Prof. Dr. Tomo Nagashima

Email: nagashima@cs.uni-saarland.de

Pay grade classification is based on the particular details of the position held and the extent to which the applicant meets the requirements of the pay grade within the TV-L salary scale. Part-time employment is generally possible.

If you have obtained a foreign university degree, a proof of the equivalence of this degree with a German degree by the Zentralstelle für ausländisches Bildungswesen (ZAB) is needed before hiring. If necessary, please apply for this in time. You can find more information at <https://www.kmk.org/zeugnisbewertung>.

Unfortunately, neither costs for attending an interview at Saarland University nor costs for any certificate evaluation by the ZAB can be reimbursed in principle.

We welcome applications regardless of gender, nationality, ethnic and social origin, religion/belief, disability, age, and sexual orientation and identity. In accordance with its policy of increasing the proportion of women, the University actively encourages applications from women. Applications from severely disabled persons will be given preferential consideration in the event of equal suitability.

When you submit a job application to Saarland University you will be transmitting personal data. [Please refer to our privacy notice for information on how we collect and process personal data in accordance with Art. 13 of the Datenschutz-Grundverordnung](#). By submitting your application you confirm that you have taken note of the information in the Saarland University privacy notice.