



## Job advertisement

*How can we design technology in a way that optimally supports human requirements in everyday life? And how can we counteract system-related biases to enable a trusting human-technology partnership?*

In the Department of *Teaching and Learning with Intelligent Systems* and the *Interchange Forum for Reflecting on Intelligent Systems* at the University of Stuttgart, we combine insights from cognitive psychology, human-machine interaction, and artificial intelligence to address these questions. Our ongoing projects are based on a portfolio of experimental laboratory, field, and online studies, practices in user-centered software development, and modeling and simulation approaches. Our goal is to design and evaluate responsible, user-adaptive, assistive technologies.

We are currently looking for technical support and therefore filling a position as soon as possible for a

### **Software developer (f/m/d)**

to the extent of up to 100%, initially limited until June 30, 2024. An extension is considered. Remuneration will be paid up to pay grade E13 TV-L if the formal requirements are met.

### **The position**

You will support the department's ongoing research projects with user-centered software development. These projects currently include, among others, a mobile, playfully designed app that fosters ecological awareness in children, a VR-supported learning environment for training cognitive functions in the context of neurodiversity, as well as a desktop application for supporting focused learning and working in Higher Education and at the workplace. To optimize users' experiences, you will develop and implement adaptive system functionalities based on machine learning.

You will also be involved in project-related publications and present the emerging technologies at events, exhibitions, and conferences. Additionally, you will support maintaining and operating the department's technical infrastructure.

### **Requirements**

Prerequisite for employment is a completed university degree (bachelor, master, or diploma) with a relevant technical background, e.g., computer science, media informatics, software technology, game design, human-computer interaction, cognitive science, or a similar focus.

Extensive skills and experience in software development in Unity / C# and Python are mandatory. Knowledge of PyQt5 and common frameworks in machine learning (e.g., PyTorch, TensorFlow or Keras) as well as user-centered design is also desirable.

We further expect the willingness to collaborate across disciplines and participate in outreach activities (e.g., Science Day, Action Days, exhibitions). In addition to native German language skills, solid English language skills (min. B2) are required for collaboration in the international department team and participation in project-related publications.

### **What we offer**

We offer the opportunity to participate in the development of intelligent educational technologies that support learners in various ways in a creative, dynamic, interdisciplinary team. The regional connection with the [Cyber Valley](#), Europe's largest AI cluster, provides the opportunity to work with top scientists from all over the world and to use a rich infrastructure of events and educational opportunities.

In addition to subject-related qualifications, we facilitate the personal development of our team members in various ways, e.g., by participating in career-related workshops, national and international conferences, joint publications, involvement in professional networks or regular mentoring.

We offer flexible working hours and promote a good work-life balance. According to the formal regulations of the University of Stuttgart, home office hours of up to 60% of the regular working hours are possible in accordance with the department director.

### **How to apply**

If you are interested, please send us your complete application, quoting the reference number **LLiS/2023/01** in the form of one single PDF file by **August 31, 2023** to [career.llis@ife.uni-stuttgart.de](mailto:career.llis@ife.uni-stuttgart.de). If you have any questions related to content, please contact the department director, Jun.-Prof. Dr. rer. nat. Maria Wirzberger, at [maria.wirzberger@iris.uni-stuttgart.de](mailto:maria.wirzberger@iris.uni-stuttgart.de).

Your application should contain the following documents: Motivation letter, CV, certificates and transcripts, samples related to the required software skills. We further ask you to indicate contact details of at least two references. **Please note that we only consider complete applications in the selection process.**

The University of Stuttgart would like to increase the proportion of women in the scientific field. Therefore, women are explicitly encouraged to apply. Severely handicapped persons will be given priority in the event of equal aptitude. We promote gender equality and diversity.

With the submission of your application, you accept the processing of your applicant data in terms of the data-protection law. Further information on the legal basis and data usage according to article 13 of the General Data Protection Regulation (GDPR) is provided at <https://www.uni-stuttgart.de/en/privacy-notice/job-application/>.

**We are looking forward to receiving your application!**