



In the department of Computer Science and Business Informatics, Human-Computer Interaction Group at University Trier, one

Post-Doc Position (f/m/d, full time, fixed term until 31.12.2023) in «Flexi-Teams» Project

is open and to be filled as soon as possible. Payment follows E 13 TV-L.

Task in the „Flexi-Teams“ Project

In pandemic situations, such as the current COVID-19 pandemic, healthcare organizations as well as companies have to adapt their existing work processes and teams very flexibly and dynamically to the changing framework conditions. The specific requirements for such a redesign are constantly changing due to the constantly changing knowledge about the specific risk factors in the spread of the pandemic and, thus, require an agile change of direction, which is associated with great effort and uncertainty. By using the data available in organizations on personnel, resources and organizational processes, combined with knowledge of cognitive science and work psychology as well as concrete experience from comparable issues from previous crises, new digital instruments can be designed to support the flexible reorganization of work teams. Artificial intelligence (AI) methods are in the foreground in the *Flexi-Teams* project and can be used to identify decision proposals and explain them transparently, as well as prospectively and retrospectively evaluate alternatives and decision options.

Your task in the Flexi-Teams project will be the user-centered design, development and analysis of a visual and interactive user interface for an AI system that is responsible for the communication between human users and this AI. The overall goal is to convey the decisions of the AI to the user in an understandable form and simultaneously enabling information flow back from the user to the AI system. You will work in an interdisciplinary team of psychologists and AI experts and will participate in the necessary knowledge exchange and discussions. You will be in exchange with potential users as part of the user-centered development of prototypes. During development, you will develop and apply different methods and interaction concepts, whereby different types of end devices should also be used.

Development Potential in the Project and at University of Trier

- Participation in an interdisciplinary research project with references to the design, development and analysis of interactive systems and visualization, usability research and artificial intelligence
- Direct collaboration in a team of business informatics specialists as well as work and organizational psychologists
- Possibility of using research infrastructures (e.g. VR laboratory, immersive systems for VR and AR)
- Qualification within the interdisciplinary context within the project working group, the individual research groups and the opportunity to develop and implement your own project ideas
- Joint publications in the field of human-computer interaction, artificial intelligence and work and organizational psychology

Requirements and Application

In addition to a completed university degree you have a doctorate in the field of computer science, human-computer interaction or related fields. You have a very good knowledge of the English language and are interested in publishing in English-language scientific journals and conferences. You can prepare, communicate and implement research questions in a structured manner. You are characterized by high social skills, willingness to work in an independent and team-oriented working style. You have the ability to independently design and develop interactive (software) systems using various end devices such as VR / AR glasses, touch screens or mobile devices (smartphones and tablets). You have experience in the conception, implementation and evaluation of user studies for the analysis of interactive systems.

People with restrictions will be given preference if they are suitable (please enclose proof of disability). The University of Trier endeavors to increase the number of its female scientists and urges them to apply. Please send your application with the usual documents (curriculum vitae, letter of motivation, certificates) in electronic form by **June 30, 2021** to weyers@uni-trier.de, Jun.-Prof. Dr. Benjamin Weyers, University of Trier, Department IV - Computer Science, 54286 Trier. Please summarize all documents in one pdf file. It is not necessary to send it separately via mail. If you have any questions, please contact Jun.-Prof. Dr. Benjamin Weyers (weyers@uni-trier.de).