HOCHSCHULE OSNABRÜCK

UNIVERSITY OF APPLIED SCIENCES

Welcome to Osnabrück University of Applied Sciences, the largest University of Applied Sciences in the German state of Lower Saxony. In addition to offering around 100 practice-oriented study programmes in three locations, we have an impressive teaching and research record, and provide excellent opportunities for personal development. Our students value the academic and professional expertise of our faculty, our international networks, and our modern university management. To fulfil our mission, we are looking for individuals with innovative ideas and life-long curiosity.

Osnabrück University of Applied Sciences, Faculty of Engineering and Computer Science, invites applications for the position of

RESEARCH ASSISTANT (M/F/D)

FOR THE RESEARCH PROJECT: "ARTIFICIAL INTELLIGENCE (AI) BASED DECISION SUPPORT FOR CHILD ABUSE AND NEGLECT RISK ASSESSMENT IN SIMULATION SCENARIOS BASED ON A DIGITAL TWIN" (AID4CHILDREN)

to start as soon as possible.

The research project focuses on the development of dynamically adapted virtual training scenarios to optimize the quality of risk assessments in child protection cases. The training scenarios to be developed will be dynamically adapted to different levels of immersion, ranging from on-screen presentation, similar to the computer game Sims, to immersive virtual reality (VR). Through an interdisciplinary team, the project aims to improve training and guidelines and contribute to better child protection. The project is funded by the Ministry for Science and Culture of Lower Saxony (MWK).

The independent, scientific processing of the data will, in particular, involve the following tasks:

- Exploration and testing of various AI methods for dynamically generating virtual training scenarios in VR based on child endangerment case vignettes and from various other data sources
- Implementation of a modular toolkit to collect data on interaction behavior and stress levels of professionals using virtual training scenarios, e.g., eye tracking and galvanic skin response
- Preparation of research results, also in the form of scientific articles, reports and presentations, primarily in English

Conditions governing the appointment:

- Successful completion of a scientific degree focusing on computer science, cognitive science, AI, or VR
- The ability to work independently on complex scientific issues
- A good command of English
- Proven experience in AI or VR
- A high degree of independence, good communication skills, and the ability to work in a team

The position involves part-time employment (75%) and is for a fixed term until February 28, 2027. Remuneration is in accordance with pay grade 13 of the Public Sector Collective Agreement for the Federal States (TV-L). There is the option of pursuing a cooperative doctorate. For more information, please contact Professor Dr. Julius Schöning (j.schöning@hs-osnabrueck.de). Osnabrück University of Applied Sciences reserves the right to conduct the selection interviews in person or online.

We look forward to welcoming a motivated individual who is keen to contribute to the continual development of our university. Exciting tasks, active students and dedicated colleagues are waiting for you!

This may also be of interest:

Osnabrück University of Applied Sciences is an equal opportunity employer, and promotes women as far as the legal framework allows. Our university promotes a healthy work-life balance by offering arrangements such as very flexible working time models. Applications by candidates with disabilities will be given preference in case of equal qualification.

For information on the processing of personal data, please refer to this link: https://www.hs-osnabrueck.de/stellenangebote

Please send your application with the usual documents - (if submitting your application by email, please send a single PDF file only) – stating the reference number IuI 12-2024 to the following address by 05 February 2024: