UNIVERSITÄT TRIER

Trier University conducts socially important research and teaching at the cutting edge: with a strong focus on digitalization, interdisciplinarity, and diversity. Our research focus is on people and their relationship to society, law, the economy, and the environment. With currently around 10,000 students and around 2,000 employees, Trier University is one of the largest employers in the European border region of Trier. Short distances on a green campus, a lively academic life and an open-minded working culture offer many opportunities for implementing groundbreaking research projects and up-to-date teaching.

In Faculty IV at the University of Trier, Computer Science, Human-Computer Interaction, the following position is to be filled from September 1, 2026 to August 30, 2029 within the Doctoral Network **(Marie Skłodowska-Curie Doctoral Network)** entitled **"Unified Nondestructive Evaluation of Historical Artifacts (UNVEIL)"**:

Research Associate (m/f/d)

(E 13 TV-L, 100%, fixed-term for qualification purposes in accordance with the WissZeitVG, for a maximum duration of 3 years. The position is intended for academic qualification - doctoral studies.)

What you will do

UNVEIL is a Marie Skłodowska-Curie Doctoral Network uniting 21 partners to create advanced, nondestructive imaging and digital tools that reveal the unseen structure and materials complexity of paintings and 3D artworks. We combine terahertz, ultrasound, infrared, and spectral/X-ray imaging with multimodal data fusion, interactive visualization, and digital twins to improve diagnostics and preservation. The network trains 12 doctoral researchers in a unique setting that bridges engineering and the humanities. Its results will support museum AR experiences and be shared openly on European platforms to maximize reach and long-term impact.

At Trier University, we are looking for one doctoral researcher who will investigate the concept of Digital Twins and their application to cultural heritage applications. The goal of this doctoral project is to make Digital Twins of historical artifacts accessible to museum visitors using Virtual and Augmented Reality Technologies. At its core of project lies the question how gathered scientific data can be integrated and what type of interaction techniques need to be used for Augmented and Virtual Reality to make Digital Twins of historical artifacts usable and easy to understand. During the project, the candidate will gain deep insight into the development and evaluation of Augmented and Virtual Reality systems as well as brought knowledge. More detailed information for the doctoral network can be found on its website: https://unveil-dn.eu/

Requirements

We are seeking a highly motivated candidate with a strong academic background and a passion for designing and developing interactive technologies, particularly in the fields of Human-Computer Interaction and Virtual & Augmented Reality (immersive systems and applications). The ideal candidate will bring a combination of technical expertise, research interest, and creativity, as outlined in the following requirements:

- Master's degree in Computer Science, Human-Computer Interaction, or a closely related field
- Knowledge of Human-Computer Interaction (HCI) principles, methods, and user-centered design

Bewerbungen sind in einer einzigen pdf-Datei bis zum 13.05.2026 erwünscht

Bewerbung bitte per E-Mail an
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Universität Trier, HCI
z. H. Benjamin Weyers
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Kontakt bei Rückfragen
Univ.-Prof. Dr.-Ing. Benjamin Weyers
Tel. +49 651 201-2852 Mail: weyers@uni-trier.de
www.uni-trier.de

- Demonstrated interest and/or experience in Virtual Reality (VR) and Augmented Reality (AR) technologies
- Proficiency in one or more programming languages (e.g., Python, C++, JavaScript, or similar)
- Interest in game engines or XR development platforms (e.g., Unity, Unreal Engine) is a plus
- Understanding of usability evaluation methods and user research techniques
- Skills in written and verbal communication in English

Additionally, potential candidates must meet the eligibility requirements for participation in a Marie Skłodowska-Curie Doctoral Network, including compliance with the mobility rule (see https://www.nks-msc.de/en/Grundlegende-Informationen-2249.html). At the time of recruitment, applicants must not yet have completed a doctoral degree. The selection of candidates follows a procedure agreed upon within the Doctoral Network.

What we Offer

As a fully funded PhD candidate, you will benefit from a supportive research environment and a range of academic and professional development opportunities at Trier University. Specifically, we offer:

- Full funding for the duration of the PhD, including a competitive salary and social security benefits
- Access to state-of-the-art research facilities, laboratories, and technical infrastructure
- Close supervision and mentorship from experienced researchers and faculty members including expertise from PIs of the UNVEIL doctoral network
- Opportunities to collaborate within interdisciplinary and international research teams including secondments with partners from the UNVEIL consortium
- Funding and support for attending international conferences, workshops, and summer schools
- Access to training programs in transferable skills (e.g., scientific writing, teaching, project management) provided by GUT@Trier University
- A vibrant academic environment with seminars, guest lectures, and networking opportunities
- Support for publishing research in high-impact journals and presenting at leading conferences
- Possibility of industry collaboration and engagement with real-world applications
- Access to university services such as libraries, career development centers, and wellbeing support

The employment requirements resulting from § 57 Abs. (2) and (3) HochSchG. In particular, a prerequisite is an above-average completed academic degree in computer science (Master's, Diplom, or a comparable qualification).

Trier University is committed to increasing the number of female employees and strongly encourages women to apply. Severely disabled persons and persons treated as such under Section 2 (3) of SGB IX will be given.

We kindly ask you to submit your application documents digitally as a single PDF file to Benjamin Weyers (weyers@uni-trier.de). For further information on the processing of your personal data, please refer to the privacy policy for application procedures in accordance with Article 13 GDPR on our website.

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