



Project Assistant (Post-Doc)

40 hours/week | limited to 2 years

TU Wien is Austria's largest institution of research and higher education in the fields of technology and natural sciences. With over 26,000 students and more than 4000 scientists, research, teaching and learning dedicated to the advancement of science and technology have been conducted here for more than 200 years, guided by the motto "Technology for People". As a driver of innovation, TU Wien fosters close collaboration with business and industry and contributes to the prosperity of society.

At the Institute of Management Science, the Research Group of Human-Machine-Interaction is offering a position as project assistant (post-doc), limited to 2 years for 40 hours/week. Expected start: July-September 2023.

The mission of HMI is to design, develop and implement human-centred and assistive technologies for workers, increase their well-being, and address the negative impacts of the phenomenon of the aging workforce. HMI strives to achieve a better symbiosis between humans and automation and develops technology that helps workers rather than replaces them – our promise to society. As a unit focused on human-centred research, we use digital transformation in society to engage all stakeholders within the labour market and thus aim contribute to social sustainability.

Tasks:

- Collaboration and research projects: You will work on the acquisition and management of research projects, both on the local and international level. In addition to that, you are expected to collaborate with the current HMI team and beyond, from industrial partners to other research units within and outside of TU Wien
- Research: You will perform inter- and transdisciplinary research on human-machine symbiosis, the future of technology-assisted work, and the social aspect of digital transformation in the industry. Moreover, you are expected to present your research at conferences and publish in scientific journals
- Teaching: You will be expected to hold presentations for master's lectures on human-machine interaction. Moreover, the teaching tasks involve the supervision and co-supervision of bachelor and master students
- Organisation: You will contribute to the scientific life of our institute, co-supervise student and PhD research topics and help developing our team and our organisation

The desired core areas of competence include but are not limited to:

- Human-machine interaction and/or human-centred computing
- User studies on usability of different technologies

- Machine learning and human-centred AI
- Automation and digital transformation in society, optimally with focus on labour and work
- Socio-technical aspects of informatics
- Open science

Skills that are of benefit, but not a prerequisite for the position (provided willingness and interest to learn more on these topics):

- Human-robot interaction and basics of robot programming
- Sensor based analysis of affect and/or cognitive load
- Analysis of human motion (e.g., human action recognition, postural assessment, etc.)
- Computer vision and deep learning

Your profile:

- Completed doctoral or PhD studies in the field of Computer Science, Mechatronics and Robotics, Engineering or a related area from a domestic or equivalent foreign university or research institution
- Good scientific reputation proven by publications in internationally prestigious scientific conferences and journals
- Strong interest for research and development of new prototypes and artifacts, especially in the area of human-centred computing
- Interest in conducting experimental research in the areas of human-machine interaction (also including human-computer and human-robot interaction)
- Ability and willingness to manage research projects (both national and international). Optimally, the candidate also has previous experience in the acquisition and execution of new research projects
- Very good command of English, as well as knowledge of German (B2 level) or willingness to learn within the first year
- Experience in the supervision of scientific work of students, such as bachelors and masters theses. Previous experience with teaching is of benefit
- Social competence – especially in terms of inclusion, equity, and diversity

We offer:

- Excellent working conditions where nothing is far from anything else, where people feel safe and can make meaningful connections with one another in an attractive research environment
- Position as part of an interdisciplinary team, characterized by a close collaboration and sharing of knowledge across disciplines
- Flexible work model and a range of various training opportunities for personal growth
- Access to a well-suited research facility for applied research (TU Wien Pilot Factory) and relevant hardware (collaborative robots, AR and VR-devices, sensors)
- Access to computational resources, including GPU clusters of the TU Wien
- Attractive compensation combined with a supplemental retirement benefit program sponsored by the employer and further benefits (see also: Fringe-Benefit Catalogue of TU Wien)
- An employee-friendly environment in a city with an extraordinarily high quality of life
- Close cooperation with Fraunhofer Austria Research GmbH in the area of applied and industry-oriented contract research

TU Wien is committed to increasing the proportion of women in particular in leadership positions. Female applicants are explicitly encouraged to apply. Preference will be given to women when equally qualified, unless reasons specific to a male applicant tilt the balance in his favor.

People with special needs are equally encouraged to apply. In case of any questions, please contact the confidant for disabled persons at the university, Mr. Gerhard Neustätter.

Entry level salary is determined by the pay grade B1 of the Austrian collective agreement for university staff. This is a minimum of currently EUR 4,351.90/month gross, 14 times/year for 40 hours/week. Relevant working experiences may increase the monthly income.

The Institute of Management Sciences works in close cooperation with Fraunhofer Austria Research GmbH.

We look forward to receiving your application until 30.06.2023 to sebastian.schlund@tuwien.ac.at

Applicants are not entitled to compensation for travel and accommodation expenses incurred in connection with the admission procedure.