

PostDoc

The **Business Informatics Group (BIG)** at TU Wien offers a position as university assistant (post-doc) limited to 6 years for 40 hours/week.

Expected start: January 2023.

You will work in the context of the Digital Enterprise Modelling Lab, where you will be expected to contribute significantly to the research programme on enterprise modelling. This research programme combines foundational, applicative, empirical, and technological aspects of enterprise modelling research. A key element of this programme is the development of an advanced digital enterprise modelling platform that will serve as a foundation to validate new modelling theories and gather empirical data. You will also play a leading role in the development of this platform, which will combine general model-driven engineering technologies with advanced technologies for the representation and manipulation of models and (collaborative) human-model interaction. The development activities will be supported by research assistants and will be aligned to the PhD research of Pre-Doc students within the Business Informatics Group.

You hold a doctorate (or be close to completion) in computer science, business informatics, or a related discipline, together with relevant experience, and possess a good (theoretical and programming) background pertaining to the core technologies; in particular knowledge graphs and model-driven engineering. You also have an interest in, or experience with, other relevant core technologies, such as: natural language processing, ontology representation languages, model-based simulation, symbolic AI and sub-symbolic AI, and/or technologies to support advanced human-model interaction such as augmented reality, animation, immersion, and touch screens. You will be able to lead a small team of Pre-Doc students, student assistants, as well as Bachelor and Master Thesis students that contribute toward the realisation of the platform.

We welcome applicants from a diverse range of backgrounds, and we particularly encourage applications from women and underrepresented minorities.

Tasks:

- Diving deep into scientific problems and conducting collaborative and independent research
- Independent teaching and supervision of students
- Development of new methods and concepts, and their realization in software and associated evaluation prototypes
- Contributing to interdisciplinary scientific projects and development of new research project proposals
- Authoring international publications in top conferences and journals related to your work
- Taking a leading role in the development of the digital enterprise modelling platform
- Participating in organizational and administrative tasks of the research unit and faculty

Your profile:

- Completion of an appropriate doctorate and in-depth knowledge of the subject area
- Knowledge of, and experience in, scientific work
- A drive for interdisciplinary research
- A track record of highly visible research and publications in relation to the position
- Experience in teaching and pleasure in working with/supervising students
- Organizational and analytical skills as well as a structured way of working
- Software engineering skills, and the drive to lead an open source project
- Experience in, or knowledge of, relevant technologies and theories. In particular with regards to model-driven engineering, enterprise modelling, and knowledge graphs
- Excellent command of English, both in speaking and writing

- Knowledge of German (level B2) or willingness to learn it in the first year
- Excellent skills in problem solving, creativity, and innovation
- Good communication skills and team orientation

We offer:

- Work in a dynamic, interdisciplinary, and multicultural research team
- Continuing personal and professional education and flexible working hours
- Central location of workplace with very good accessibility (U1/U4 Karlsplatz)
- A creative environment in one of the most liveable cities in the world