



## Student Employee (Research)

20 hours/week, limited to 4 months

**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.**

From November 2024, the Institute of Mechanics and Mechatronics at TU Wien has a vacancy for a part-time (20h) student assistant for four months. The position is financed by a funded industrial project and assigned to the research unit Mechanics of Solids.

The topic of the research project is the development of a simulation program for roll forming of sheet metal for the production of steel profiles. The aim is to create an advanced computational model that enables precise prediction of the interactions in a forming line and is therefore suitable for accelerating the design of new production lines, improving product quality and saving costs and material.

### Tasks:

- Programming activities to optimize time-critical routines in the simulation program
- Creation of interfaces to optimized numerical packages
- Carrying out benchmark tests
- Estimation of the optimization potential of additional measures

### Your profile:

- Relevant education in computer science, scientific computing or related subjects where advanced programming skills are required
- Basic engineering level knowledge in linear algebra and numerics (matrix calculus, iterative equation solving of large linear systems, etc.)
- Programming languages: F# (dotNet) and C++ an advantage
- Language skills: German or English
- Interest in research in the field
- Independence and a high degree of motivation and commitment

**We offer:**

- The opportunity to work on an application-oriented research project in a scientific environment
- A wide variety and exciting range of tasks in a collegial team
- Flexibility in working time arrangements
- Wide range of internal and external training opportunities, various career options
- Central location of workplace as well as good accessibility (U1/U4 Karlsplatz)

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 favour.

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 C of the Austrian collective agreement for university staff. This is a minimum of currently EUR 1.299,60/month gross, 14 times/year for 20 hours/week.

**We look forward to receiving your application until November 10th, 2024.**