

At the **Institute of Solid State Electronics, in the Research Unit of Optoelectronic Materials TU Wien** a position as **university assistant (prae-doc)** is offered jointly with a large European semiconductor manufacturer until 31.01.2028 for 30 hours/week. Expected start: December 2024. The group of Prof. Alexander Grüneis conducts research in growth and spectroscopic characterization of 2D materials. The specific project deals with the growth and spectroscopic/electrical characterization of novel insulating fluorides on semiconductors and metals. See the group's homepage for more details: <https://www.tuwien.at/etit/fke/forschung/optoelektronische-materialien-1>

#### Tasks:

- Research in growth and characterization of novel crystalline insulators for gate dielectrics
- Photoemission and optical spectroscopy measurements
- Capacitance-voltage measurements
- Maintenance of ultra-high vacuum equipment (molecular beam epitaxy)
- Teaching
- Coding
- Instrument automation (python)

#### Profile:

- Excellent understanding of semiconductor physics and device
- Completion of a master or diploma curriculum in one of these fields: electronic devices, electronic structure, epitaxy, scanning probe techniques, surface science
- Skillful and responsible in experimental work
- Experience in some of the following scientific fields: electronic properties, photoemission, spectroscopy, growth of thin films
- Very good skills in English communication and writing
- Interest in research in the field as well as supervision and work with students
- Very good communicative skills and team competences and innovative ability

#### We offer:

- A wide variety and exciting range of tasks in a collegial team
- Hybrid working style with up to 60% home office option
- A range of attractive social benefits (see Fringe-Benefit Catalogue of TU Wien)
- 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 B1 of the Austrian collective agreement for university staff. This is a minimum of currently EUR 2,684.10/month gross, 14 times/year for 30 hours/week. Relevant working experiences may increase the monthly income.

**We look forward to receiving your application until October 1th 2024, Email:**  
**[alexander.grueneis@tuwien.ac.at](mailto:alexander.grueneis@tuwien.ac.at)**