Postdoc Research Group Modic

Full Time Klosterneuburg (Vienna), Austria € 3.500 to € 4.000 gross/month*

IST Austria is growing. Grow with us!

IST Austria is a constantly growing international institute for conducting frontier research in mathematics, computer science, life sciences & physical sciences. We recruit passionate professionals from across the world over all fields who support our goal of excellent research. Located within a beautiful campus on the outskirts of Vienna, we offer multiple opportunities for personal growth in a stable working environment. Get an insight!

The Modic group (https://ist.ac.at/en/research/modic-group/) is investigating strongly correlated quantum materials in high magnetic fields. Some examples of materials include quantum spin liquids, unconventional superconductors, heavy fermions, topological matter and low-dimensional systems.

The Modic group has a multifaceted approach that includes: advanced sample fabrication using a dual-beam FIB/SEM, sample characterization up to 14 tesla at helium-3 temperatures, design and optimization of new thermodynamic probes, and measurements under extreme conditions such as high magnetic fields up to 100 tesla.

The future postdoc will have the opportunity to learn state-of-the-art sample preparation methods and to develop new measurement techniques with sophisticated data acquisition and analysis. The postdoc will have access to a brand new clean room and on-site electronics and machining workshops, as well as the freedom to travel to world-class scientific facilities.

Your profile

- PhD in physics completed within the past 5 years
- Ability to communicate effectively in English
- Excellent written communication skills, demonstrated by peer-reviewed publications
- Ability to solve problems creatively and carefully, both independently and as part of a team
- Enthusiastic about mentoring graduate students and working with other postdocs
- Experience with superconducting and/or pulsed-field magnets and familiarity with scanning electron microscopy and focused ion beam lithography
- Experience with electrical circuits and programming languages
- Familiarity with basic sample characterization (electrical and thermal transport, magnetization, specific heat)

Application documents: CV, research statement: previous experience and planned work, publication list, three references

To submit your application please email: agnieszka.rowinska@ist.ac.at

* This position comes with possible overpayment depending on education, qualification and work experience. IST Austria processes your personal data in accordance with the law. For more information, please refer to www.ist.ac.at/data-protection.

Your benefits

- Education & training
- Cafeteria
- Childcare
- Free shuttle bus
- Multiple health offers
- Pension insurance

Am Campus 1, 3400 Klosterneuburg, Austria
Tel.: +43 (0) 2243 9000-0 | www.ist.ac.at