

PhD Positions / University Project Assistants (m/f/d) in the frame of the Lead Project Porous Materials @ Work for Sustainability

- 30 h/week, for 3 years
- Starting at the earliest on September 1st, 2022
- Application Deadline: July 15th, 2022

Graz University of Technology is the longest-established university of technology in Austria. Here, successful teams of students, talented up-and-coming scientists, ambitious researchers and a lively start-up scene enjoy an inspirational environment as well as access to top-quality equipment. And all this in one of the most innovative and livable regions in Europe. TU Graz offers an inspiring working environment with outstanding infrastructure and service-oriented university management.

The core of the lead project is to bundle complementary expertise to realize sustainable developments with new application and characterization avenues for porous materials. In the project, PhD students will be supervised by two faculty members with complementary expertise and have the opportunity to interact with researchers across multiple scientific disciplines. A wide range of soft-skill training activities and mandatory project-internal activities will aid the PhD students to develop personal skills supporting their future professional career. Details regarding the PhD topics and the involved supervisors are found here:

https://pmws-open-positions.tugraz.at/open_call_projects.html

DUTIES/RESPONSIBILITIES





The aim of the lead project is to support sustainable development by designing new porous systems to address specific problems: With a total of 12 sub-projects, PMWS intends to develop new porous materials for applications to (i) clean energy development, (ii) green chemistry, (iii) recycling, and (iv) monitoring. In this application round, PhD students can apply for one of the following research topics:

- Magnetically responsive hydrogen-bonded organic frameworks biocomposites (PhD Topic 6, P. Falcaro/B. Nidetzky)
- Understanding phononic heat transport in metal-organic frameworks (PhD Topic 10, E. Zojer/M. Schultze)
- Understanding anharmonicities in the phonons of metal-organic frameworks (PhD Topic 11, E. Zojer/R. Resel)
- Accurate quantification of specific surface areas and porosity of hierarchical porous systems (PhD Topic 12, K. Zojer/R. Resel)

REQUIRED SKILLS AND EXPERIENCE

- Completed master's degree in the field of materials science, physics, chemistry, biochemistry or a similar discipline
- Very good command of written and spoken English
- Ability to work in a team
- Enthusiasm for interdisciplinary work and joint dissemination activities in the lead project

WE OFFER

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|  Interesting area of responsibility |  Subsidy for public transport |
|  Collegial and friendly working atmosphere |  University Sports Program |
|  Seal of quality for in-house advancement of women |  Workplace Health Management |
|  Flexible working schedule |  Shopping discounts |
|  Opportunities for professional and personal development |  Most family-friendly company in Styria 2018 |

Apply now >

We look forward to your complete application (letter of motivation, curriculum vitae, references, further documents) quoting the reference number PMWS-P12 at roland.resel@tugraz.at latest on July 15th, 2022.

We offer a minimum annual gross salary based on full-time of € 42,820.40, overpayment possible depending on qualification and experience. Graz University of Technology aims to increase the proportion of women and therefore qualified female applicants are explicitly encouraged to apply. Graz University of Technology actively promotes diversity and equal opportunities. People with disabilities and who have the relevant qualifications are expressly invited to apply.

Protecting the health of our students and employees is of high importance to our university. For this reason, equally qualified candidates who are fully vaccinated against COVID-19 will be given preference.

Contact

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Information on the data processing of your application can be found at www.tugraz.at/go/datenschutzinformation-pa.