



Mitglied des Best Practice-Clubs



The Institute for Inorganic Chemistry, Faculty of Chemistry and Physics, TU Bergakademie Freiberg has opportunities* for:

Five PhD Students

Pay grade and contract: E13 TV-L at 0.5 FTE (standard for PhD students in Germany)

Job description:

The project focusses on research and technological developments using CO₂ to synthesize novel molecular, oligomeric and polymeric silicon compounds, (poly)-urethane derivatives and hybrid materials. The characterization of these materials using NMR-, IR-, Raman-, MS-, UV/VIS-spectroscopy, XRD, elemental analyses and further experimental and computational methods is also a significant part of the project.

Applicants must be able to cooperate effectively with various partners, including industry members. A thorough comprehension of relevant literature and competent analysis and presentation of results through publications, oral presentations, posters, reports and eventually a PhD thesis is expected. While a student's focus will be on research, participation in teaching, project management and development of other transferable skills is mandatory.

Successful candidates can look forward to working in a diverse, supportive and friendly work group. For further information please contact Dr. Sandra Schwarzer (sandra.schwarzer@chemie.tu-freiberg.de) or Prof. Edwin Kroke (kroke@tu-freiberg.de, +49-(0)3731-39-3174).

Requirements:

- University degree in Chemistry, Materials Sciences (or a similar field), obtained after December 2012. Master of Science, Diploma (or equivalent) or Bachelor of Science, with exceptionally good grades, are accepted.
- Experience with preparative inorganic, organic, polymer and/or solid-state chemistry and common methods for analysis and characterization.
- Candidates should have a self-reliant work ethic and the ability to work well in an interdisciplinary team. Good communication and writing skills, as well as a good command of German and/or English are essential.
- The willingness to pursue a doctorate and the above mentioned accompanying qualification measures are expected.
- The applicant may not have received funding from the ESF for at least than 24 months.

The TU Bergakademie is committed to increasing the number of women in teaching and research positions so qualified female candidates are especially encouraged to apply. Applicants with disabilities will receive preferential consideration, provided they possess equal qualifications.

Please send complete written applications including a cover letter, CV, transcripts and copies of relevant qualifications, to TU Bergakademie Freiberg, Dezernat für Personalangelegenheiten, Akademiestraße 6, 09599 Freiberg, Germany. Please include the reference number **(100/E/2017)** on your application.

The deadline for applications is 19th May, 2017.

* Subject to final approval by the Free State of Saxony and with financial contributions from the European Social Fund (ESF)