

1 PhD position (f/m/d) for 3 years at the Faculty 4 Production Engineering at the University of Bremen in the groups Advanced Ceramics (Prof. Dr.-Ing. K. Rezwani) and Polymer Materials (Prof. Dr. B. Mayer). The salary is according to Entgeltgruppe 13 TV-L (full equivalent).

The time limitation is based on § 2 (1) WissZeitVG (Wissenschaftszeitvertragsgesetz, i.e. temporary science employment act). Therefore, candidates may only be considered who dispose of the respective scope of qualification periods according to § 2 (1) WissZeitVG.

This project is part of an interdisciplinary program focusing on the rational design of ceramic/polymer composite materials with tailored properties for space applications.

Project description:

- Preparation of hybrid nanocomposite materials for energy conversion
- Complex polymer synthesis
- Material characterization with physical chemical methods
- Interdisciplinary research between chemistry, material science and physics

What you can expect

- Autonomous work in an interdisciplinary team in the facilities of Advanced Ceramics in cooperation with the department Polymeric Materials and Mechanical Engineering of the Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM
- Opportunity to shape the research field
- Participation at national and international conferences
- Conducting research that should lead to a dissertation
- Teaching responsibility (e.g. supervision of practical courses, student projects and bachelor and master theses)

We expect the applicant to have a very good degree (B.Sc.+M.Sc. or Diploma) in Material Science, Chemistry, Physics or related sciences with a focus on Colloid or Polymer Chemistry.

Female candidates and candidates with a migration background are particularly invited to apply for this position.

Candidates with disabilities will be favorably looked upon if their application is of equal quality and fit for the position.

Please send your application until **November 6th, 2020** with the **reference number A249/20** to

Universität Bremen
MAPEX Center for Materials and Processes
Dr. Hanna Lührs
Am Biologischen Garten 2
28359 Bremen, Deutschland

or as a **single PDF file** via email to Dr. Hanna Lührs (mapex@uni-bremen.de)

Please do not hesitate to contact us via email for further information and inquiries.