Scientific Assistant (m/f/d) – Position number 54-E/2021

to conduct PhD studies in the third-party funded project “Shaping Glass in the 21st Century: Additive Manufacturing of Transparent Glass Objects” to be filled at 01 June 2021.

Pay grade: E13 TV-L  Hours: 0.75 VZÄ  Contract type: fixed-term until 31 May 2024

There is an unmet need for new fabrication processes for making functional glass objects. The most innovative and modern shaping technology of the 21st century is additive manufacturing. The 3D printing of amorphous objects, especially for optical applications, is still a major challenge. The international cooperation project combines fundamental materials research and technological development.

Job description:
Experimental glass chemistry work (materials research): Synthesis and characterization of glass and 3D printed objects. Description of batch reactions in connection with various 3D printing processes (direct melt printing, digital light processing, binder jetting). Post-processing, i.e. investigation and characterization of sintering behaviour.

Work on technology: Advancing the direct melt printing process for glass, including the joint design and construction of a laboratory printer with the project partners. Research and implementation of an alternative approach for melting. Research and implementation of an alternative approach in post-processing. You will present your scientific findings in publications and (inter) national conferences.

What you can expect from us:
− A position in an active and supportive research group at a family-friendly university with flexible working hours
− Salary in accordance with the collective labour agreement for civil servants of the German states
− Support from experienced colleagues for lab work, scientific publications and participation in conferences
− Possibility to take part in the University’s career development programmes

What we expect from you:
− excellent or very good university diploma or master’s degree in Engineering with specialization in Additive Manufacturing, Process Engineering, Materials Science, or other relevant areas
− basic knowledge in the field of amorphous materials or glass including practical experiences
− high level of independence, motivation; active participation in international collaboration
− advanced German skills, as well as high level in spoken and written English

For further information please contact Mrs. J.-Prof. Sindy Fuhrmann.
E-Mail: sindy.fuhrmann@igt.tu-freiberg.de.

The applicant must meet the hiring requirements for fixed-term employment contracts according to the WissZeitVG. Applicants with disabilities will receive preferential consideration, provided they possess equal qualifications. For consideration, we ask you to submit proof of your disabled status together with your application documents. TU Bergakademie is committed to increasing the number of women in teaching and research positions, hence qualified female candidates are especially encouraged to apply.

Written applications, including a CV, motivation letter and copies of all relevant qualifications documents (certificates, diplomas), should be submitted before 19 April 2021 stating reference number (54-E/2021) to the following address:

TU Bergakademie Freiberg, Dezernat für Personalangelegenheiten, 09596 Freiberg or bewerbungen@tu-freiberg.de

Your application documents will not be returned, please only submit copies. Candidates will not be compensated for any costs incurred for attending interviews. TU Bergakademie Freiberg is always looking for scientific personnel from various disciplines. Further information can be found at http://tu-freiberg.de/wirtschaft/karriere/stellenausschreibungen