The Faculty of Mathematics and Computer Science of the TU Bergakademie Freiberg invites applications for the position of a

**Research assistant (m/f/d) – Position number 42-E/2021**

to be filled at the earliest possible time. The position is associated to the research group “uncertainty quantification” of the assistant professorship for applied mathematics.

**Salary:** 13 TV-L  
**Compensation:** 50 % of a full-time equivalent (0,5 FTE, increase optional if applicable)  
**Time limit:** 3 years (extension for 3 additional years is optional)

**Job description:**
You conduct independent research within the scientific interests of the research group. These include, among others, numerical methods for uncertainty quantification for parametric differential equations (particularly, high-dimensional approximation methods), Bayesian inference in high-dimensional spaces and corresponding sampling methods (particularly, Markov chain Monte Carlo) as well as uncertainty quantification in machine learning (preferably also combined with a design of experiments approach for generating training data). Moreover, the position comes with a teaching load of two hours per week per semester. Here, you are supporting the courses offered by the research group. In particular, you will be responsible for tutorials in the field of applied stochastics and machine learning.

Active pursuit of personal qualification goals such as a doctorate is expected.

**We offer:**
- interdisciplinary scientific research within a small, highly motivated team
- active support for your doctorate
- participation in international conferences and support for research stays abroad
- work at a family-friendly university with flexible office hours
- competitive salary according to the Germany public service scale

**We expect:**
- a diploma or masters degree (university level) in mathematics or a related subject,
- profound knowledge in stochastic and/or numerical analysis,
- experience with methods for uncertainty quantification, Bayesian statistics, machine learning or experimental design is of advantage,
- a high motivation, the ability to perform research independently
- proficiency in written and spoken English (a basic level of German is advantageous)

**For further information, please contact Jun.-Prof. Dr. Björn Sprungs:** (bjoern.sprungk@math.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.

Please send your application and relevant documents with reference to the **position number (42-E/2021), until March 24, 2021**, to:

**TU Bergakademie Freiberg - Dezernat für Personalangelegenheiten - 09596 Freiberg, Germany 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](http://tu-freiberg.de/wirtschaft/karriere/stellenausschreibungen)