

External Job Announcement – Registration number 5-826/20-H

The Martin-Luther-University Halle-Wittenberg, Faculty of Natural Sciences II, Institute for Mathematics is offering a position for a

PhD Student (m-f-d)

in part time (50%), limited to 3 years. The salary will be up to the salary class 13 TV-L, depending on individual capacities and qualifications.

Requirements:

- A very good university degree in mathematics or related fields (Master or Diploma)
- Good knowledge in
 - a) Stochastic analysis, in particular stochastic (partial) differential equations, rough differential equations and numerics of stochastic differential equations *and/or*
 - b) Numerical analysis, in particular model reduction methods (e.g. system-theoretical methods, data-based methods, reduced basic methods and Proper Orthogonal Decomposition) *and/or* numerics of partial/ordinary differential equations
- Good knowledge of scientific and technical software, such as MATLAB
- Experience in university teaching is desirable

Work Tasks:

- Developing efficient methods to solve stochastic/rough differential equations; Applying model reduction methods in the context of high-dimensional partial differential equations and in order to solve stochastic differential equations
- Conducting courses in mathematics (2 SWS), mainly exercise classes (applied stochastics), supervision of seminar papers
- Active participation in research projects at the interface of stochastics, numerics and analysis with the aim of obtaining a doctorate.

Applications from severely disabled candidates with equivalent qualifications will be given priority. In order to support women in academia, the university particularly encourages women to apply. Part time employment may be possible.

For further information, please contact Jun.-Prof. Dr. Martin Redmann.

E-mail: martin.redmann@mathematik.uni-halle.de

Please send your application including letter of motivation, curriculum vitae, copies of degree certificates including grades, list of publications and the **Registration Number 5-826/20-H** until **18/02/2020** to the Faculty of Natural Sciences II, Martin-Luther-University Halle-Wittenberg, Institute for Mathematics, Jun.-Prof. Dr. Martin Redmann, 06099 Halle (Saale), Germany. An electronic application (in a single PDF file) to martin.redmann@mathematik.uni-halle.de is welcome.

This job vacancy may be subject to budgetary restrictions.

The Martin-Luther-University will not reimburse application expenses. Written documents will only be returned if the applicant provides a self-addressed and stamped envelope.