

At the University of Graz, researchers and students work across a broad disciplinary spectrum to enlarge our knowledge, and find strategies to deal with challenges our society is confronted with and to shape tomorrow's world. The University of Graz is a place which combines high quality academic research and teaching, where achievement is rewarded, careers are promoted, and social diversity is encouraged – all within a modern, award-winning working environment. Our motto: We work for tomorrow. Join us!

The University of Graz will carry out a research project on machine learning approaches for data-driven cardiopulmonary resuscitation. The project will be realized in close collaboration with the University Hospital Graz. Its goal is to develop mathematical models and machine learning strategies that allow for a better understanding of the physiological conditions of patients during cardiopulmonary resuscitation. This will be achieved using both, parameter identification techniques for differential-equation-based physiological models and machine learning approaches.

The Institute of Mathematics and Scientific Computing is looking for a

### **Project Assistant without doctorate**

(30 hours a week; fixed-term employment for the period of 3 years; position to be filled as of now)

#### **Your duties**

- Research in applied mathematics and computer science, with a focus on interdisciplinary applications in data-driven cardiopulmonary resuscitation
- Collaboration with medical doctors from the University Hospital Graz
- Participation in organizational and administrative matters
- Possibility to work on a relevant dissertation

#### **Your profile**

- Master's degree in Mathematics, Computer Science or a related field
- Solid knowledge in applied mathematics
- Good programming knowledge, ideally in Python
- Knowledge in one or more of the following topics: Mathematical Signal- or Image Processing, Parameter Identification, Machine learning (desirable)
- Very good knowledge of English, written and spoken
- Capacity for teamwork, organizational talent and ability to communicate
- Strong motivation to carry out research and develop new methods in application-driven mathematics and computer science
- Ability to work in an interdisciplinary environment

#### **Our offer**

##### **Classification**

Salary scheme of the Universitäten-KV (University Collective Agreement): B1

##### **Minimum salary**

The minimum salary as stated in the collective agreement and according to the classification scheme is EUR 2196.80 gross/month. This minimum salary may be higher due to previous employment periods eligible for inclusion and other earnings and remunerations.

We offer you a job with a lot of responsibility and variety. You can expect an enjoyable work climate, flexible work hours and numerous possibilities for further education and personal development. Take advantage of the chance to enter into a challenging work environment full of team spirit and enthusiasm for your job.

Application Deadline: **January 13<sup>th</sup> 2021**

Reference Number: **MB/203-1/99 ex 2019/20**

The University of Graz strives to increase the proportion of women in particular in management and faculty positions and therefore encourages qualified women to apply.

Especially with regard to academic staff, we welcome applications from persons with disabilities who meet the requirements of the advertised position.

If you are interested, please submit your application documents before the stated deadline to:

[bewerbung@uni-graz.at](mailto:bewerbung@uni-graz.at)

For further information, Dr. Martin Holler is at your disposal at the telephone number +43 (0) 316 / 380 - 5156.