



The Chair of Mathematics for Business and Economics at the University of Zurich (Switzerland) is looking for

### **Research Assistants (PhD students, 60% employed)**

starting from December 1<sup>st</sup> 2020 or by arrangement

The Chair of Mathematics for Business and Economics focuses on the mathematical solution of business problems. We model and optimize stochastic dynamic systems, in particular via Markov decision processes and approximate dynamic programming. Our main applications include revenue and health care management. We teach mathematics and optimization at the Bachelor and Master level.

### **We Offer**

- The opportunity to work on a PhD thesis and to present your work at international conferences
- Interesting work as part of a dynamic team in a friendly working environment
- The possibility to interact with internationally renowned scientists
- An appropriate salary in accordance with the salary guidelines/scale of the canton of Zurich

### **Responsibilities**

- Developing, managing and publishing research projects within the field of approximate dynamic programming or revenue management
- Assisting in teaching of introductory math or optimization classes
- Supervision of Bachelor or Master theses

### **Qualifications**

- Candidates should have a strong background in mathematics and an excellent Master's degree in (applied) Mathematics, Computer Science, Industrial Engineering, or a related, quantitative field of study
- Basic knowledge of optimization and/or stochastic processes
- Good knowledge in at least one higher programming language (Matlab, AMPL)
- Strong motivation for scientific research and teaching
- Good organizational and communication skills
- Successful candidates are reliable team players
- Advanced English language skills are required



## **Further Information**

Further inquiries regarding the position can be sent to [christiane.barz@uzh.ch](mailto:christiane.barz@uzh.ch).

## **Applications**

Applications should include a motivation letter, a CV, academic transcript and, if available, a certificate of the master degree and GMAT score. The documents should be sent in a single PDF to [christiane.barz@uzh.ch](mailto:christiane.barz@uzh.ch) before September 30<sup>th</sup>.