

## **Position as Doctoral Student or Post-doc in Theoretical Computer Science | 23.050**

With more than 20,000 students, the University of Regensburg is an innovative and interdisciplinary campus university with diverse and highly renowned research activities and a broad and attractive range of courses for young people from home and abroad. The Theoretical Computer Science Group<sup>1</sup> at the recently founded Faculty of Informatics and Data Science pursues research in a range of different topics in Theoretical Computer Science, formal logic, and program verification. Among others, the group develops new reasoning methods for various logics and theories, i.e., methods that are able to determine automatically whether a given formula is satisfiable or valid. Such methods are implemented in theorem provers and constraint/SMT solvers, and are commonly applied for analyzing correctness properties of software programs. To strengthen the group, we are seeking to appoint a

### **Research Associate (m/w/d)**

The appointment is available full-time (40.1 hours per week) or part-time, and time-limited to 3 years. The position is intended for studies towards a doctoral degree (§ 2 Abs. 1 WissZeitVG) and is compensated following TV-L E13.

#### **Responsibilities**

- Research in Theoretical Computer Science, for instance the study of properties of logical fragments and theories; the development of proof/decision/interpolation procedures; the implementation and evaluation of such procedures; the development of methods for program verification.
- Publication and presentation of research results at international conferences and in journals.
- Participation in the teaching of the group (exercises, practical sessions). Teaching corresponds to at most 5 hours per week (SWS) during term time.
- Supervision of student projects and Bachelor or Masters theses.

#### **Requirements**

- A completed Masters degree (or equivalent) with good or very good results in Computer Science or a related area (e.g., Physics, Mathematics).
- Strong motivation to conduct scientific research in collaboration with national and international partners.
- Willingness to enter and learn about new research areas, and take over responsibility for research projects.
- Good programming skills.
- Good teaching skills and the passion to help students in their learning process.
- Excellent written and verbal communication in English or German.

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<sup>1</sup> <https://www.uni-regensburg.de/informatics-data-science/theoretical-informatics/startseite/index.html>

## What we offer

- The opportunity to conduct exciting and relevant research in close collaboration with other researchers in Regensburg, as well as in collaboration with national and international partners.
- The opportunity to complete a doctoral degree.
- Flexible working arrangements (within the scope of the work tasks).

The University of Regensburg aims to increase the proportion of female staff and thus strongly solicits application of qualified female scientists. The University of Regensburg especially supports compatibility between family and work commitments.

Applicants with disability are given preferential consideration in case of equal qualification. Please indicate any disability already at the application stage.

Please note that costs arising from a possible interview cannot be reimbursed.

For questions regarding this post, please contact Prof. Dr. Philipp Rümmer ([philipp.ruemmer@ur.de](mailto:philipp.ruemmer@ur.de), phone: +49 941 943 68612) or Ms. Heidi Gärtner ([sekretariat.tcs@informatik.uni-regensburg.de](mailto:sekretariat.tcs@informatik.uni-regensburg.de), phone: +49 941 943 68610). To apply, please send a cover letter outlining your interest in this post together with a CV as a pdf to [sekretariat.tcs@informatik.uni-regensburg.de](mailto:sekretariat.tcs@informatik.uni-regensburg.de). The application deadline is March 31 2023.

Note: Legally binding is the German version of this announcement, please see <https://www.uni-regensburg.de/universitaet/stellenausschreibungen/lehre-forschung/index.html>