

Postdoc/PhD Research Position

Formal Methods in Control (Munich, Germany)

We invite applications for **two post-doctoral researcher positions** in the field of formal methods, in Munich, Germany, the city of the Oktoberfest. The successful candidates are expected to advance the state of the art of abstraction-based synthesis and verification, to facilitate routine and efficient application of the approach. Depending on background and interests of each candidate, the research focus will be either on theoretical foundations, or on algorithms and software development.

Required qualifications:

- PhD degree in **Mathematics, Systems and Control, Computer Science**, or a related field. Exceptionally qualified and experienced candidates with an MSc degree will also be considered.
- Strong theoretical or mathematical background, and a strong interest in dynamical or control systems.
In addition, experience in one of the following fields is required: Optimal control; semi-definite programming; quadrature theory; set-valued numerics; reachability analysis; validated floating-point arithmetic; compiler design; software development.
- Programming proficiency (C or Ada or Mathematica).
- Efficient communication skills in English.

The position is full-time and paid according to pay scale “TVOeD Bund, E 14”. Actual income depends on marital status and professional experience, and starts from EUR 35000 net p.a. (E-13/EUR 32700 for applicants with an MSc degree). Reimbursement for travel expenses to conferences. No teaching load. The positions are available immediately and for a duration until December 2023, with possible extension contingent on research performance. They are open to applicants worldwide; no special security clearance necessary.

Your complete application consists of the following documents, which should be sent *as a single PDF file* to the email address given below (**deadline: December 22, 2021**): CV; one-page cover letter (clearly indicating available start date as well as relevant qualifications, experience and motivation); university certificates and transcripts (BSc, MSc and PhD degrees); up to three letters of recommendation; list of publications; possibly an English language certificate. All documents should be in English or German.

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