



Technische Universität Wien
Inst. Logic and Computation (E192-01)
Algorithms and Complexity Group
Favoritenstraße 9–11
A-1040 Vienna, Austria

Prof. Dr. Martin Nöllenburg
Associate Professor

T: +43-1-58801-186120
noellenburg@ac.tuwien.ac.at
www.ac.tuwien.ac.at/people/noellenburg

The [Algorithms and Complexity Group](#) at TU Wien is inviting applications for a three-year position of a **PhD student (Predoc University Assistant, pay grade B1 (75%))**

starting September 1, 2018 (negotiable) in the FWF project “Human-Centered Algorithm Engineering: Graph and Map Visualization” led by [Assoc.Prof. Dr. Martin Nöllenburg](#).

The project is funded by the Austrian Science Fund (FWF) and deals with algorithmic problems in graph visualization and cartography that integrate human expertise into the algorithmic optimization process. The goal of the position is to design, analyse, implement, and evaluate efficient geometric human-in-the-loop algorithms to obtain high-quality solutions for challenging visual design tasks. It is expected that the research activities in the project lead to conference and journal publications and finally to a successful PhD degree. The position combines aspects of algorithm engineering, information visualization, and human-computer interaction and opens opportunities for interdisciplinary research.

The ideal candidate is an enthusiastic and highly motivated young researcher with an excellent Master degree (or equivalent) in computer science or a related field, as well as profound knowledge and strong research interests in algorithmics and algorithm engineering. Good programming skills are required and previous experience in visualization or human-computer interaction is a plus. The candidate needs to have good English communication skills (written and spoken), must be interested in interdisciplinary work, e.g., with biology and cartography, and be able to work both independently and in teams.

We offer a stimulating and collaborative working environment in a strong, international research group in the field of algorithms and complexity. The [Faculty of Informatics](#) at [TU Wien](#) is Austria’s largest computer science department and ranks among the top universities in computer science in Europe. Furthermore, Vienna has been awarded for nine years in a row as the city with the world’s highest quality of living. The position includes travel funds for conferences, summer schools, and research visits, full social security benefits and health insurance. The monthly gross salary, according to the [FWF salary scheme](#), starts at 2,112€ (14× per year).

Informal inquiries about the project and the position are welcome and should be sent to Martin Nöllenburg, noellenburg@ac.tuwien.ac.at.

Your application documents should contain the following: cover letter (explaining your motivation, your qualifications for this position and your preferred starting date), detailed academic CV (including list of publications, if any), transcript of records and academic degree certificates, Master thesis or a short summary (if not yet finished), and contact information of at least two references. Send your application documents in PDF format to Martin Nöllenburg, noellenburg@ac.tuwien.ac.at. The selection process starts on June 1, 2018, and continues until the position is filled.