

The **Rheinische Friedrich-Wilhelms-Universität Bonn** is an international research university that offers a wide range of degree programs. The University of Bonn, with some 35,000 students and more than 6,000 employees on the foundation of a 200-year tradition, is one of the leading universities in Germany and enjoys an excellent international reputation.

The Geoinformation Group at the University of Bonn works at the intersection of algorithms and geoinformation science as well as geovisualization. We are offering a fully funded

Doctoral Student Position (TV-L E13, 100%)

in the DFG-funded research unit Algorithmic Data Analytics for Geodesy. We seek a PhD student who will develop efficient optimization algorithms for the generation of interactive maps. The position is limited to four years.

- Your responsibilities
- Development of efficient algorithms for problems of automated cartography, including design, implementation, and experimental evaluation
 - Publication of results at international conferences and in scientific journals
 - Cooperation with members of the research unit and international partners (active contribution to project meetings, collaboration in joint paper projects, etc.)
- Your profile
- M.Sc. (or equivalent) in geodesy, geomatics, cartography, geoinformation science, computer science or a related discipline
 - Strong skills in applied mathematics, programming, and scientific writing
 - Interest in interdisciplinary collaboration
 - Excellent command of written and spoken English
- We offer:
- Integration in a vibrant interdisciplinary research network within and beyond the University of Bonn
 - Integration in a structured PhD program
 - Institutional support for applicants with families
 - Salary scale 13 TV-L

The Geoinformation Group is part of the Institute of Geodesy and Geoinformation (IGG), which is providing an excellent work environment. Located at Campus Poppelsdorf, it is in walking distance of many university facilities and the city center of Bonn. The IGG belongs to the Agricultural Faculty, which is running the Bonn International Graduate School Land & Food (BIGS L&F). This has a separate track on geodesy and geoinformation, providing supervision through a thesis advisory committee as well as an excellent program for the development of scientific expert knowledge and transferable skills. Enrolment to the BIGS L&F is encouraged but not mandatory.

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university and aims to increase the proportion of women employed in areas where women are under-represented and to promote their careers. To that end, it urges women with relevant qualifications to apply. Applications will be handled in accordance with the *Landesgleichstellungsgesetz* (State Equality Act). Applications from suitable candidates with a certified disability or equivalent status are particularly welcome.

Please submit your electronic application and documents (cover letter, CV, copies of your transcripts of records, and links to code examples and publications, e.g., BSc or MSc theses) via email to Prof. Dr.-Ing. Jan-Henrik Haurert (haurert@igg.uni-bonn.de). For full consideration please submit your application **by August 31, 2022**. We reserve the right to also consider applications received after this date. For any questions on the position, please write an email to Prof. Dr.-Ing. Jan-Henrik Haurert.