

Geographic 3D Point Cloud Analysis (Full-time PhD / Postdoc Position)

HEIDELBERG UNIVERSITY invites applications for one full-time PHD STUDENT and one SENIOR RESEARCHER (POSTDOC) position in the [3D Geospatial Data Processing Group](#) (Prof. B. Höfle) at the Department of Geography. The 3DGeo group is also affiliated with two research centers – the Interdisciplinary Center for Scientific Computing ([IWR](#)) and the Heidelberg Center for the Environment ([HCE](#)).

PHD STUDENTS will be hired initially for three years and the SENIOR RESEARCHER for initially two years, both positions with the option of extension. The gross salary ranges from ca. 44k EUR to 67k EUR (according to TV-L 13) depending on proven qualification and experience, plus social benefits including health insurance and family supplement. The starting date for the positions is spring/summer 2018 – a later start is negotiable.

WE ARE LOOKING for candidates with an excellent university degree in a relevant area, e.g., Computer Science, Geoinformatics, Geography, Geodesy/Geomatics, (Environmental) Physics, or similar. We expect research experience (BSc/MSc or PhD thesis) in at least one of the fields of geoinformatics, remote sensing, computer vision, robotics/AI or scientific computing. Additionally, the senior researcher must have a proven record in teaching, high-ranked journal publications, supervision of students and experience in writing grant proposals.

WE EXPECT the prospective candidates to have advanced programming skills in C++ or Java and also Python. Furthermore, the candidate must have already worked with 3D point clouds, e.g. from LiDAR/laser scanning or images. You are highly interested in the development of novel automatic methods to process and analyze large geographic 3D point clouds and time series in order to address real-world geographic applications (e.g. natural hazard analysis, climate change phenomena, geomorphology, agriculture, forestry, bathymetry, etc.).

APPLICATIONS should include a research motivation letter (max. one page), complete CV, list of publications (incl. link to MSc/PhD thesis), links to own source code and software, and two references (incl. contact details). Submit all documents in a single PDF-file via email to hoefle@uni-heidelberg.de (subject: 3DGeo position). Review of applications will begin **April 1, 2018**, and will continue until the positions are filled.

For more background information about the research group and current projects, please visit us on <http://uni-heidelberg.de/3dgeo>.

Heidelberg University aims at a general increase in the proportion of women in all areas and positions where women are underrepresented. Qualified women are therefore particularly encouraged to apply. People with disabilities are given priority with the same suitability. Full-time positions are, in principle, divisible insofar as there are no official or legal grounds.