Deutsches Geodätisches Forschungsinstitut (DGFI-TUM)
Department of Aerospace and Geodesy
Technical University of Munich

The Deutsches Geodätisches Forschungsinstitut (German Geodetic Research Institute) of the Technical University of Munich (DGFI-TUM) is accepting applications for a

PhD student (m/f) in the research area Satellite Altimetry with focus on ocean tide modeling

The determination of water level changes on different spatial and temporal scales based on satellite altimetry has been a primary research goal of DGFI-TUM for many years. The institute's data base comprehends the complete observation record of all altimetry missions that have been launched until now. After consistent pre-processing and relative calibration, these data are available for the joint analysis (multi-mission altimetry) and for the investigation of various phenomena in the ocean as well as in the continental hydrosphere. Via its data portal OpenADB (http://openadb.dgfi.tum.de) DGFI-TUM provides the homogenized observation data and various derived products, among them DGFI's global empirical ocean tide model EOT11a.

In order to strengthen our team we are looking for a PhD candidate with specific focus on ocean tide modeling. The research will be strongly cross-linked with other institutions and partly be integrated into the Research Unit NEROGRAV (*New Refined Observations of Climate Change from Spaceborne Gravity Missions*) funded by the German Research Foundation (DFG). For the creation of enhanced mass transport series from satellite gravimetry, which is the main goal of the Research Unit, improved ocean tide models are besides other geophysical background models an important prerequisite. Your duties comprehend the regional and global processing and analysis of multi-mission altimetry data with respect to ocean tides and the further development of DGFI-TUM's EOT models.

Your profile

- University degree (M.Sc.) in geodesy, oceanography, mathematics, informatics or related
- Skills in data analysis, mathematical and statistical model development and signal processing
- Advanced computer literacy and programming skills, preferably in Fortran or Python
- Ability for independent research as part of a team, interest in the presentation and publication of scientific results
- Good command of the English language (speaking and writing)

We offer

- Independent and challenging research in an internationally well connected team
- Flexible and family friendly working hours
- Fixed term contract for a period of initially 3 years, starting as soon as possible
- Salary according to employment category E13 (100%) of the collective labor contract TV-L
- Attractive office in the Residence of Munich at the Odeonsplatz

All PhD candidates of the TUM are obligated to participate in the TUM Graduate School (http://www.gs.tum.de) that offers attractive additional funds for research training, soft-skill programs and international mobility/stays abroad. The TUM aims to increase the number of women employees. Qualified women are therefore especially encouraged to apply. Handicapped applicants will be preferred if applicability and qualification are equivalent

Interested?

Do not hesitate to contact us for questions regarding the position. We are looking forward to receiving your application with relevant documents per mail or email no later than **July 21, 2019** to:

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