

Subject: PhD Position, Geomathematics, Univ of Vienna

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Date: October 11, 2015

Within the DFG-funded project "Time-Space Multiscale Separation of Ocean Tide Generated Magnetic Signals", we offer a PhD Position (3 years) at the Computational Science Center at the University of Vienna.

The project focuses on the development and application of mathematical tools for the extraction of the Earth's magnetic field signal that is produced by (tidal) ocean currents and related inverse problems. In particular, the goal is to construct spherical basis functions related to the induction equation that reflect certain spatial properties and which should also be implemented and applied to magnetic field

satellite data. Depending on the preferences of the candidate, the emphasis can be on the more theoretical or the more applied aspects of the problem.

The project is part of DFG's priority program "Study of Earth system dynamics with a constellation of potential field missions (DynamicEarth)". Further information on the project can be found on the website of the Computational Science Center: www.csc.univie.ac.at/index.php?page=ocean_tides.

The position is limited to 3 years and payment is according to the collective bargaining agreement for Austrian university employees (level B1, 75%).

Required Qualifications: Candidates have a MSc degree (or equivalent) in Mathematics, Physics, or a closely related field and have an interest in interdisciplinary mathematics and

geosciences. They are open minded, active, and have a good command of the English and/or German language.

Applications (including letter of motivation, curriculum vitae, copies of academic certificates, and a letter of recommendation) and inquiries on the position should be send to: christian.gerhards@univie.ac.at.

The vacancy will be closed whenever a qualified candidate has been found.