



Within the DFG-funded project **Time-Space Multiscale Separation of Ocean Tide Generated Magnetic Signals**, we offer a

**PhD Position (Mathematics) at the
Computational Science Center, University of Vienna**

The project focuses on the development and application of mathematical tools (e.g., the construction of localized basis functions for the induction equation) for the extraction of the Earth's magnetic field signal that is produced by (tidal) ocean currents and related inverse problems. It is part of DFG's priority program "Study of Earth system dynamics with a constellation of potential field missions (DynamicEarth)" and a collaboration with the GFZ German Research Center for Geosciences in Potsdam is planned for the geophysical application. Further information on the project can be found under 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%, 30h/week).

Required Qualifications

Candidates have a MSc degree (or equivalent) in Mathematics, Computer Science, or a closely related field and have a strong 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.

Application deadline is August 31, 2015. The vacancy will be closed whenever a qualified candidate has been found.

The Computational Science Center

The Computational Science Center (CSC) at the University of Vienna is a research platform, headed by Otmar Scherzer, belonging to the faculties of Mathematics and Computer Science. The core research topics of the CSC are on Inverse Problems and Image Analysis. More information can be found on www.csc.univie.ac.at.