Job Announcement

PhD Student Position
at the
Wegener Center for Climate and Global Change, University of Graz

Project:
OPSCLIM—Reference Occultation Processing System for Cal/Val and Climate: SI-traceable Processing with Integrated Uncertainty Propagation. Goal of this project of the research group ARSCliSys (www.wegcenter.at/arsclisys) is a new processing system for GNSS radio occultation (RO) that aims to establish RO data records as global climate reference standard.

Field of PhD thesis work:
As a key member of the OPSCLIM team, contribute in a first phase to Level 1a processing of RO data, in particular to the derivation of accurate excess phase profiles, with new approaches integrating uncertainty propagation. In a second phase, focus on utilizing RO data records processed by the new system for monitoring traces of climate change over 2001-2015. The PhD student may be associated with the programme http://dk-climate-change.uni-graz.at/en/.

Job profile:
Duration and payment: Initial contract two years from 1st June 2015 (or earliest possible date), extension by 3rd year scheduled; University of Graz/Austrian Science Fund salary scheme for PhD students (2015 annual gross salary ~28,300 €, incl. extensive social benefits package).

Qualifications and skills:
- MSc Graduate, in a natural sciences discipline (e.g., geophysics, meteorology, atmospheric physics, physics, geodesy), graduation complete at least before June 2015;
- Expertise in atmospheric science and atmospheric remote sensing, in particular in the field of atmospheric sounding by GNSS radio occultation and climate-related applications;
- Experience with scientific modeling and data analysis, preferably including experience with GNSS radio occultation processing and data analysis and related applications;
- Experience with work on Linux and Windows operating systems, and scientific programming skills (e.g., Fortran, C++; MatLab/IDL; Python);
- Responsible work style, distinct problem solving skills, ability to effectively work in a team;
- Fluency in English, good communication and (scientific) writing/reporting skills.

More information in case of interest:
Dr. Marc Schwärz, +43-316-380 8455, marc.schwaerz@uni-graz.at, or
Prof. Gottfried Kirchengast, gottfried.kirchengast@uni-graz.at.

Please send your application (motivation letter, CV plus written and oral publications, MSc thesis abstract, two letters of recommendation) per e-mail (pdf) to Dr. Marc Schwärz.
Application deadline: Fri April 17, 2015.

Brief information—Wegener Center. The Wegener Center for Climate and Global Change is an interdisciplinary, internationally oriented institute of the University of Graz, which serves as core center for pooling the competences of the University in the areas Climate, Environmental, and Global Change. The institute brings together research teams and scientists from fields such as geophysics and climate physics, meteorology, economics, geography, and regional sciences. At the same time, close links exist with many cooperation partners, both nationally and internationally. The director of the institute is the geophysicist Gottfried Kirchengast, the lead partner is the economist Karl Steininger. (more information: www.wegcenter.at)