



## **Postdoctoral Research and Graduate Student positions in National Key Program: “Pathways to Habitability”**

Space Research Institute, Austrian Academy of Sciences, Graz, Austria

The Space Research Institute of the Austrian Academy of Sciences in Graz, Austria, announce the availability of 2 postdoctoral research positions (2- to 4 year contracts) and 1 PhD student position in a large key national research program dedicated to the study of conditions for habitability in planetary systems. The project, led by Prof. Manuel Güdel (for additional information and job possibilities contact: [manuel.guedel@univie.ac.at](mailto:manuel.guedel@univie.ac.at)) at Vienna, is anticipated to run for 8 years and is supported by national members and international collaborators. Co-leads are Profs. E. Pilat-Lohinger, E. Dorfi, R. Dvorak (Vienna), H. Lammer and M. Khodachenko (Graz).

The IWF/ÖAW in Graz announces the following positions:

**1 postdoc** candidate (male or female) (3.283,-- € á month gross) for the subproject dealing with exoplanetary magnetospheres should have an advanced knowledge of space plasma physics. An experience in planetary magnetosphere and planetary radio emission investigation, as well as an expertise in numerical simulations would be an advantage.

– contact: [maxim.khodachenko@oeaw.ac.at](mailto:maxim.khodachenko@oeaw.ac.at)

**1 PhD student** candidate (male or female) (1.877,-- € á month gross) for the subproject dealing with exoplanetary magnetospheres at the IWF in Graz should have an expertise or interest in magnetospheric and space plasma physics

– contact: [maxim.khodachenko@oeaw.ac.at](mailto:maxim.khodachenko@oeaw.ac.at)

**1 postdoc** candidate (male or female) (3.283,-- € á month gross) for the subproject exoplanetary atmospheres should be experienced in the development of Monte Carlo and Testparticle codes. The project deals with the particle production and interaction of planetary upper atmospheres – contact: [helmut.lammer@oeaw.ac.at](mailto:helmut.lammer@oeaw.ac.at)

Successful candidates will work together with the six specialist teams, addressing hydrodynamic and chemical modeling of protoplanetary disks during their entire evolution, water transport during planet formation, evolution of the stellar radiative and particle environment, wind-magnetosphere interactions, radiative+particle interactions with upper planetary atmospheres, and related processes in binary systems. For numerical work, high-performance computer clusters will be accessible. Strong scientific interactions and collaborations between the groups will be emphasized. An early starting date is encouraged, but no earlier than 1 March 2012.

Applications include a CV, a publication list, a summary of past research (for postdoc positions, max 3 pages) resp. a summary of undergraduate studies (for graduate student positions). All documents must be submitted electronically as a PDF file to the contact person. Review starts 1 February 2012; applications submitted thereafter will be considered until the posts are filled. Applicants should arrange for three letters of reference sent by the referees directly to the same contact.