

Visitor Grants and Positions in Space Physics

are available at the University of Oulu within the Centre of Excellence in Research on Solar Long-term Variability and Effects (ReSolVE) of the Academy of Finland.

The first funding period covers the years 2014 – 2016, with a possibility of extension to 2017 – 2019.

ReSolVE studies the long-term (centennial) magnetic evolution of the Sun, which depicts a dramatic increase in the 20th century and a recent rapid decline, and the effects of this variability to the space around the Sun and to the near-Earth environment, focusing on the evolution of solar poloidal magnetic fields and their role in varying the level of electromagnetic disturbances and the flux of energetic particles in near-Earth space.

Specific research topics of ReSolVE include, e.g., the solar wind and heliospheric magnetic field and their interaction with the Earth causing electromagnetic disturbances, energizing particles, and ionizing the atmosphere. Note that the effects of electromagnetic disturbances and energetic particles in the atmosphere are known to cause natural climate forcing whose overall significance is still unknown.

The vibrant atmosphere of challenging front-end research in an international team, as well as the wild beauty of the nature of the Northern Finland, including auroral displays, are guaranteed.

Post-doctoral researcher positions

A few post-doctoral researcher positions will be filled in 2014 for the first funding period. Extension may be possible if ReSolVE is continued. PhD in space physics or a closely related field is required. Research experience within the above themes is appreciated. Successful candidates are expected to focus on research, but need to devote a fraction of time to supervising PhD students, lecturing and/or other education. The salary for Post-doctoral researcher will be based on the job demand level 5-6 of the salary system for teaching and research staff in use in Finnish universities, the total salary range being 2820 – 4817 € per month (<http://www.hallinto.oulu.fi/upj/ypj-palkat20130101.pdf>).

PhD student positions

A number of PhD student positions will be filled in 2014 for the first funding period. MSc degree in space physics or a related field is required by the start of the position. A good command of English is mandatory. Successful candidates will perform PhD studies and related research at the University of Oulu. A description of PhD student admission requirements can be found at <http://www.oulu.fi/uniogs/>. The salary for PhD student will be based on the job demand level 2-4 of the salary system for teaching and research staff in use in Finnish universities, the total salary range being 1944 € to 3558 € per month (see above link).

Visitor grants

We invite applications from experts with verified competence in any of the above mentioned fields of research relevant to ReSolVE for single or multiple visits lasting up to 6 months.

Positions start to be considered and filled immediately

Applications should be sent by e-mail to Prof. Kalevi Mursula [kalevi.mursula@oulu.fi]. The entire application must be merged into a single pdf-file and attached to the e-mail including a subject field text "ReSolVE Application".

The application must include the following parts:

- Curriculum vitae (max 4 pages).
- A brief description (max 2 pages) of research experience and/or interest and its relation to ReSolVE.
- A list of publications (only post-docs and visitors).
- Names and contact information (incl. email and telephone number) of three persons willing to provide professional recommendations upon request (PhD students and post-docs).

Positions will be filled as long as suitable applicants are found, which is expected to occur by the end of 2014. PhD student and post-doc positions include a 4-month trial period.