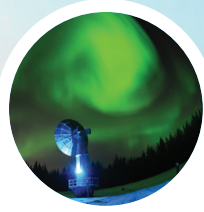# POSTDOCTORAL/OR PhD STUDENT POSITION "INVERSE PROBLEMS IN REMOTE SENSING"

The Finnish Meteorological Institute (FMI) is a service and research institute that produces high-quality observational and model data, and research findings on the atmosphere and seas. The Earth Observation Unit at FMI consists of an experienced international staff with a broad expertise on remote sensing of atmospheric processes as well as on research on the near-Earth space and solar system and we collaborate closely with FMI's Climate research and Arctic research Units.

We are now seeking for a motivated and enthusiastic individual to work on Inverse problems in remote sensing. The successful applicant will play an important role in a Finnish Academy funded project on developing novel inverse algorithms for satellite applications. In particular, focus will be in developing spatio-temporal retrieval methods that are suitable for present and future satellite observations of atmospheric composition.

The position will be located in Helsinki, Finland and has duration of 1-2 years with a negotiable starting date. Both PhD students and postdoctoral candidates will be considered. Salary will be based on experience and performance according to the FMI salary scale.

We offer exciting work and an excellent, international training environment for early-carrier scientists!

Qualifications

- **Postdoctoral position:** Candidates with a doctoral degree (PhD degree or equivalent completed by April 2016) in relevant fields (e.g., applied mathematics, statistics, applied physics) will be considered for the postdoctoral position.
- **PhD student position:** For the PhD student position candidates with masters degree (or equivalent completed by April 2016) in relevant fields (e.g., applied mathematics, statistics, applied physics) will be considered.

Furthermore, a successful candidate must meet the following essential criteria:
- strong background in inverse problems, spatial statistics or atmospheric remote sensing
- experience on spatio-temporal methods, data fusion, assimilation and/or environmental big data
- good knowledge of some widely used programming languages (e.g. Fortran, Python, Matlab) and Unix/Linux/OS X operating system
- written and spoken fluency in English, and willingness to work internationally
- good communication and organizational skills
- ability to carry out independent research as well as work as a part of a team
- strong interest on research and highly motivated in transferring research results to societal impacts

To apply, send a short application together with a CV and publication list by e-mail to hakemukset.kirjaamo@fmi.fi (cc: johanna.tamminen@fmi.fi) with title "Open position in Inverse Problems " by May 12th, 2016 at 12 Noon (EET).

For more information, please contact Head of Group Johanna Tamminen (johanna.tamminen@fmi.fi or +358 (0)40 737 8733)