



## Postdoctoral researcher - Data science 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, the near space, cryosphere and the seas, as well as weather, sea, air quality and climate services for the needs of public safety, business life and citizens. It currently employs over 700 persons out of which about half are full time researchers.*

The Greenhouse Gases and Satellite Methods Group of the Earth Observation Research Unit at the Finnish Meteorological Institute is looking for an enthusiastic and motivated postdoctoral researcher for climate science projects. In particular, we are looking for a candidate with expertise on developing new computational methods for data science. Expertise on atmospheric sciences and satellite remote sensing are considered as a bonus but is not required.

The focus of the post-doctoral project is to develop new data driven methods for understanding anthropogenic CO<sub>2</sub> emissions from space-based data. In this project, the candidate will work with simulated and real atmospheric CO<sub>2</sub> observations, e.g. from Nasa's Orbiting Carbon Observatory instruments as well as with the air quality data from European satellite instruments. In addition to scientific work, we expect the candidate to publish the results in scientific journals and to give presentations in international conferences.

The Greenhouse Gases and Satellite Methods Group is part of Space and Earth Observation Centre (<https://space.fmi.fi>) at the Finnish Meteorological Institute. The group and the position are also affiliated with the Finnish Centre of Excellence in Inverse Modelling and Imaging of the Academy of Finland.

### Qualifications

- PhD degree or equivalent in a suitable field, e.g., computer science, physics, applied mathematics (also applicants near completion of the degree will be considered)
- Strong programming skills (e.g. Python)
- Good spoken and written English language skills, and willingness to work internationally

### Furthermore, a successful candidate must meet the following essential criteria:

- Ability to carry out independent research work as well as work as part of a team
- Good communication and organizational skills that are needed in multidisciplinary research projects
- Proven track-record on writing scientific publications
- Strong interest in research and highly motivated in transferring research results to societal impacts.
- Previous experience on working with real (atmospheric/environmental) data and large datasets is considered as benefit.

***We offer an inspiring and internationally active working environment, development opportunities and support from our friendly research team!***



The position will be located in Helsinki, Finland. The position is temporary employment. The contract is for one year, and will begin earliest on 1st of March 2021, or as agreed (with a possible extension to two years). The position includes a probationary period of three months in the beginning. Salary will be based on experience and performance according to the FMI salary scale, base level 12.

**To apply**, please submit a short application together with CV, list of publications, transcript of records and a maximum of three references to <https://www.valtiolle.fi/en-US/vacancy?id=31-4-2021> by 16 February 2021 at 12 noon (EET). You can submit the application in Finnish or English language.

**For more information**, please contact Head of Group, Adjunct Prof. Hannakaisa Lindqvist ([hannakaisa.lindqvist@fmi.fi](mailto:hannakaisa.lindqvist@fmi.fi), +358 40 725 5651), Senior Research Scientist, PhD Janne Hakkarainen ([janne.hakkarainen@fmi.fi](mailto:janne.hakkarainen@fmi.fi), tel. +358 50 563 7805) or Head of Unit, Research Prof. Johanna Tamminen ([johanna.tamminen@fmi.fi](mailto:johanna.tamminen@fmi.fi), tel. +358 40 737 8733).

You must register and create an account to Valtiolle.fi recruiting system before leaving your application. Login prefer using the Edge browser. The system user guide: [https://www.valtiolle.fi/en-US/Working\\_for\\_The\\_Government/Guide](https://www.valtiolle.fi/en-US/Working_for_The_Government/Guide)

