



## Scientist “Numerical weather prediction; very short range forecasting and nowcasting”

*The Finnish Meteorological Institute is a service and research institute that produces high-quality observational data and research findings on the atmosphere and seas. The Institute uses its expertise to provide services that promote public safety and enhance well-being among people and in the environment.*

The Numerical Weather Prediction group at the Finnish Meteorological Institute in Helsinki is opening a position for a MSc student or PhD student in the field of numerical weather prediction with focus on very short range prediction and nowcasting. The contract is for the period to the end of the year 2018.

The work will be carried out within the MetCoOp Nordic collaboration on numerical weather prediction. MetCoOp is a trilateral collaboration between the national meteorological agencies of Finland, Sweden, and Norway in the field of numerical weather prediction. MetCoOp is supplying regional short-range forecasts to the member states in the form of the convection-permitting ensemble forecast MEPS, based on the HARMONIE-AROME NWP-system. As a complement to MEPS, a nowcasting suite, targeted at the very short range, is under development and will become operational within the current year.

The applicant will be developing the HARMONIE-AROME numerical weather prediction system focusing on improving the initialization of cloud variables in a context of very short range forecasting. The main tasks will include ingesting data from various sources into a nowcasting suite, and evaluating their impact on relevant forecast parameters.

We look for a highly motivated candidate interested in data usage and numerical weather prediction methods. We expect the candidate to demonstrate research skills and initiative.

### Qualifications - candidates must have

- BSc in meteorology or related field such as geophysics, physics, mathematics
- Understanding of atmospheric modelling and numerical weather prediction methods
- Ability to work in a Linux environment, and manage different data handling tasks
- A working knowledge of the Fortran programming language, and experience of R or Python is a benefit
- Good skills in written and spoken English

The position will be located in Helsinki, Finland. The work will begin as soon as can be agreed. The contract is for the period to the end of the year 2018. Salary will be based on experience and performance according to the FMI salary scale (approximately €2500-€2800 per month).

**For more details**, please contact Scientist Erik Gregow; [erik.gregow@fmi.fi](mailto:erik.gregow@fmi.fi) or tel. +358 50 320 7859, or Head of group Carl Fortelius; [carl.fortelius@fmi.fi](mailto:carl.fortelius@fmi.fi) or tel. +358 50 525 1394.

**To apply**, send a short application together with a CV, list of publications (if applicable) and one to three names of reference persons to <https://www.valtiolle.fi/en-US/Vacancy?id=31-85-2018> by 31 May 2018 at 14 p.m. (EET).

**You must register and create an account to Valtioille.fi recruiting system before leaving your application.**  
**(Login to Applications <https://haku.valtiolle.fi/Public/Login/Applicant.aspx>)**  
**The system user guide for an applicant: <https://www.valtiolle.fi/en-US/Guide>**