Norwegian Meteorological Institute

Modern meteorology requires management and analysis of enormous amounts of data, and offers great and exciting professional challenges. Since the institute was established in 1866, Norwegian meteorologists have played a key role in this development. The Norwegian Meteorological Institute is today a leading international environment of expertise in operational meteorology and climatology.

Part-time developer or student job in climate & air pollution research

The group on Climate modelling and Air Pollution at the Norwegian Meteorological Institute in Oslo is seeking a Master or Bachelor student to work ca 1 day per week plus the summer break for the next year, starting in March/April.

The Norwegian Meteorological Institute (MET) has a part-time or student developer position vacant in the field of processing, analyzing and presenting air pollution, climate, and meteorological data on the web. We are seeking candidates with a background in natural science and/or computer science, interests in air pollution and/or meteorology and experience in programming of scientific datasets and web-visualisation. We expect the candidate to be able to work about 1 day a week in the spring and a couple of months full time during the summer in 2024, but other arrangements can be found.

Main tasks and responsibilities

We are seeking a part-time or student developer that will work on the evaluation of air pollution and climate models in our group. He/she will contribute to development of a toolkit that will be used for diagnosing and validating air quality and climate model-results. The toolkit gathers measurement data from several measurement networks- ranging from in-situ observations to retrievals from satellites, compares these with model predictions, and makes detailed and systematic analysis available as web-pages. The toolkit developers are also responsible for collaboration with the toolkit users, consisting of both model-developers and external experts.

Qualifications

Computer skills as well as interest in scientific data are highly relevant to the position duties. The new developer will build and maintain tools to acquire and process high volumes of data in different data-formats. The output of these processes forms the basis of the full-stack web-development required to present analyses and data visualisation. In addition, insight into the relevant physical and chemical processes is an advantage.

- Bachelor in computer sciences, mathematical sciences or natural sciences. Master students during their last year are also welcome.

- Programming experience expected in
    - UNIX/LINUX
    - Python software development
    - git
    - conda or virtualenv
- Interest in one or more of the following
    - High Performance Computing, parallelization and code optimization
    - Cloud computing (openstack, Azure, Ansible)
    - Binary data formats such as NetCDF and HDF5
    - Web frontend development, setup/orchestration of web applications
    - data visualisation

In addition, the candidate must have

- Good command of the English and Norwegian language
- Good communication skills, both related to research, team-coordinations, and presentations in general
- Presentable grades

Personal skills

- Strong motivation and personal capabilities
- Ability to work independently as well as the ability to be a good team player
- Creativity and ability to work result-oriented, accurately and structured.

Work hour presence at MET is required.

Conditions

- Salary on the governmental salary scales dependent on qualifications and experience

For more details, contact project leads Heiko Klein (ph +47 45 08 91 04) or Lewis Blake (email lewisb@met.no).

Deadline for application: 4th of March 2024.

The application must be submitted by email to Hilde Fagerli, Head of Division:

To	Hilde.Fagerli@met.no
Subject	FoU-KL part-time position 2024-02

Please attach CV, diploma/grades, list of publications/public source-code repositories and the name of one reference.

Oslo, 15th of February 2024