



Troms og Finnmark / Tromsø

Legg til favoritt

Scientist with interest for space situational awareness (SSA)?

Arbeidsgiver: NORCE

Stillingstittel: Scientists/Senior Scientists in the Earth Observation Group

Frist: 14.04.2023

Ansettelsesform: Fast

About the position

The Earth Observation Group is looking for two senior scientists in a permanent full-time position with knowledge or interest for space situational awareness (SSA) and/or satellite-based oceanography and its application to offshore wind energy.

There are tens to hundreds of thousands of objects in Earth orbit that pose a potential threat to satellites and launches. SSA includes the topic of space surveillance and tracking (SST), which refers to keeping track of objects in orbit and predicting where they will be at any given time. It also includes space weather applications and near-Earth objects. There is a growing national and international need for SSA/SST services, and the Earth Observation Group at NORCE is expanding its competence and capacity within the field. Ongoing activities in the group include simulations of observation systems and the design of future SST instruments.

Offshore wind is an emerging source of renewable energy, whose capacity is expected to increase rapidly in the coming years. Satellite images are a unique source of wide coverage observations of met-ocean parameters, which complement the information from numerical weather models and have a potential of contributing valuable information both in planning and operation of offshore wind farms. NORCE's ambition is to combine satellite- and model-based information to map wind resources for siting of new wind farms, to produce forecasts of wind and power production, and to improve modelling of coastal wind fields and turbine-induced wind wakes. A background in meteorology, numerical weather modelling, oceanography, radar remote sensing, signal processing, machine learning and/or mathematical and statistical modelling is relevant.

Work tasks

The employees will work on ongoing projects and will be involved in building up further activities at the Earth Observation Group at NORCE. Other connected research tasks may also occur.

Requirements

We are looking for scientists with a Ph.D. and a strong background within one or more of these following fields of research:



Radar system design
Orbit mechanics and dynamics
Satellite remote sensing
Synthetic aperture radar
Oceanography
Marine boundary layer meteorology
Machine learning and data science

Knowledge of additional topics, or experience with the formal software design process will count in the candidate's favor.? Research experience can substitute the Ph.D. requirement in some cases. Female candidates are encouraged to apply.

Location

The place of work will preferably be in Tromsø, but in some special cases other NORCE locations can be considered.

We offer

For the right candidate we offer:

- Exciting tasks and good colleagues in an internationally leading and recognized professional environment
- Collaboration with academic staff and students at universities and colleges
- Opportunities to work with exciting research tasks, create new projects and expand your network together with NORCE
- Interdisciplinary work in and across teams
- Good opportunities for professional and personal development in an organization that values good performance
- Varied and flexible working day

Contact

If you have any questions about the position, please contact: group leader Kjell Arild Høgda at kjho@norce-research.no, senior scientist Stian Normann Anfinssen at stia@norce-research.no (satellite oceanography and offshore wind) or senior scientist Tom Grydeland at tgry@norce-research.no (space situational awareness).

Om arbeidsgiveren

NORCE is a forward-looking research institute, with expertise in a wide range of fields and strong communities of knowledge. We deliver research and innovation in energy, health care, climate, the environment, society and technology.

Our solutions address key challenges for society and contribute to value creation on the local, national and global levels.



Bransje: Forskning, utdanning og vitenskap

Stillingsfunksjon: Forskning/Stipendiat/Postdoktor



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564 følger dette firmaet

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Meteorologisk institutt

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