



NILU
Monitoring and
Instrumentation
Technology

Jobbnorge ID: 246116

Deadline: 8/22/2023

Website: <https://www.nilu.no/>

Scope: Fulltime

Duration: Permanent

Senior engineer/researcher - particle and greenhouse gas measurements

Senior engineer/researcher

About the position

NILU's measurements shows [new record levels](#) of the greenhouse gases carbon dioxide, methane and nitrous oxide at Zeppelin (Svalbard) and Birkenes (Southern Norway). Measurements of particles and greenhouse gases are important for the evaluation and documentation of climate agreements progress.

NILU is responsible for the Norwegian national monitoring program for greenhouse gases and particles. The measurements are carried out at NILU's observatories at [Zeppelin](#) (Svalbard), [Birkenes](#) (Southern Norway) and [Trollhaugen](#) (Antarctica). NILU's measurements are part of international monitoring networks such as [ICOS](#), [AGAGE](#) and [ACTRIS](#). The position is in NILU's department for Measurement and Instrumentation Technology (MIT) which is responsible for providing quality-assured data that makes it possible to determine changes in greenhouse gas and particle levels in the atmosphere.

NILU is experiencing an increasing workload within this subject area and is therefore looking for a new colleague who will be part of NILU's team who operates, maintains, quality control and reports data from the instruments at our observatories. You will, through close cooperation in NILU's team and in international networks, study particles, greenhouse gases, ozone-depleting substances and reactive gases. We have state-of-the-art instrumentation, and we work with a wide range of instruments and measuring techniques.

National and international travel activities must be expected.

Duties of the position

- Carrying out service, troubleshooting, repair and calibration of instruments at our observatories and our laboratory at Kjeller
- Further development of measurement methods and instrumentation
- Installation of new instruments
- Quality control and reporting of measurement data
- Participate in international meetings and networks
- Contribute to projects
- Some project management

Qualifications and personal characteristics

We are seeking a committed and self-motivated researcher with a master or PhD degree. You must have expertise in measurement techniques such as gas chromatography, mass spectrometry and optical spectroscopy. You must have good competence in and enjoy practical work related to troubleshooting and service of simple and advanced instrumentation.

In addition, you should have:

- Education in measurement technology, physics or chemistry
- Knowledge within electronics
- Experience from operating measuring instruments
- Experience from control of measurement data and quality systems
- Computer skills within Office 365 and systems for collecting and processing measurement data
- Good written and oral presentation skills in Norwegian and English
- Good communication and collaboration skills
- Driver's license for a passenger car

We offer

At NILU, we work for our common future. Our research contributes to the fight against climate change and to secure a healthy environment and a sustainably society. This means that work is more than just work: what we do each day makes a difference.

We offer flexible working hours, work-from-home agreements, subsidised fitness training, and excellent pension and insurance schemes. Salary is competitive.

During a working day at NILU, you will encounter:

- An international and interdisciplinary environment with pleasant colleagues from all over the world
- Great creativity and generous sharing of knowledge
- Broad experience and excellent opportunities for professional development
- A global network of partners

Most of our approximately 180 employees work at the main office in Kjeller, a short train ride from Oslo. We also have offices in Tromsø and Trondheim.

Application proses

Questions about the position can be directed to department director Kjersti Tørnkvist, tel: 95 17 94 84 or senior scientist Chris Lunder, tel: 93 68 94 71.

About us

At NILU, our greatest strength is our outstanding employees. They contribute to NILU's leading position both nationally and internationally - and to a pleasant working environment.

We do research from pole to pole - from Zeppelin in Svalbard to Trollhaugen in Antarctica. Our research helps increase knowledge about climate change, the composition of the atmosphere, air quality, sustainable transitions and environmental toxins - as well as how all these factors affect health and the environment. Every year, NILU performs hundreds of research commissions, large and small, for public and private customers, in Norway and internationally.

NILU is an independent research foundation with no owners who collect dividends. Instead, all profits are reinvested in operating and developing research services that benefit society. We place great emphasis on open research, open publishing, and open source code - because knowledge is meant to be shared.

At NILU, all employees are equal, regardless of gender, age, disability, creed/philosophy of life, language, cultural differences and sexual orientation. We respect and value individual characteristics, and do not accept any form of discrimination.

Additional information

Place of service:

Instituttveien 18, 2007 Kjeller 2007 Kjeller (Lillestrøm Municipality)