

# Specialist / Research Engineer, instrumentation



## About the workplace

Natural Resources Institute Finland (Luke) is a research organisation working to promote bioeconomy and sustainable use of natural resources. We provide solutions and services to our customers based on best available scientific knowledge. Our research results and services generate added value and sustainability as well as scientific evidence to support decision making. We carry out research on forestry, agriculture, food, game, and fisheries. We also perform statutory services.

Being open-minded and curious and having a strong will to leave a positive mark to the world binds Luke people together. Together we build a positive working culture where each other's work is highly respected. In Luke, the work assignments are versatile and employees can influence on the content of their work within the scope of project objectives. We work in a mobile work culture which gives you the possibility to work from where ever it is feasible for your tasks. Luke offers a multidisciplinary international research environment with unique research infrastructures, experimental sites and well-equipped laboratories.

## Work tasks

Luke is establishing a modern greenhouse gas (GHG) research infrastructure on agricultural and managed forest ecosystems in Finland, including 5-7 long-term eddy-covariance (EC) sites, auto-matic chambers and mobile GHG flux measurement systems for measuring carbon dioxide, methane, and nitrous oxide fluxes. We are now seeking for skilled Specialist/ Research Engineer to set-up and maintain eddy-covariance towers, automatic chambers and mobile GHG instruments in Lukes Maaninka (Kuopio) and Ruukki (Oulu) research infrastructures. Both Maaninka and Ruukki research infrastructures are under development and many type of automatic and sensor based solutions in addition to GHG instrumentation are currently established, e.g. in relation to measure runoff (lysimeter field and catchment level monitoring), water quality, soil processes and field and forest experiments.

This gives a possibility to work in an innovative research infrastructure and widen the knowledge and expertise on other sensor technologies and solutions as well. Specialist/ Research Engineer will work together with ca. 30 enthusiastic GHG-scientist and modelers, a dedicated Digital Solutions team and Research Infrastructure Services Unit at Luke to help provide high-quality data and science towards more sustainable agricultural and forest production. Luke is aiming to integrate its GHG research infrastructure to national and international GHG activities.

Main duties and responsibilities:

- Assisting with the design, construction and installation of EC and automatic chamber setups and auxiliary measurements such as weather stations and soil measurements
- Maintaining the instruments and measurement systems, including calibrations, and trouble-shooting on gas-analysers
- Follow the performance of the measurement systems and conducts preliminary analysis and quality checks of the data, guarantees dataflow from instruments to cloud database in collaboration with GHG-researchers and Data Manager
- Participating on planning and building Lukes Maaninka and Ruukki research infrastructures
- Assists research projects in other GHG measurements (automatic and manual chambers, mobile GHG systems and manual GHG sampling) according to the project plans
- Assisting on instrument purchases

A personnel security clearance may be obtained for a person chosen for an office or a post with his or her consent (Security Clearance Act 726/2014).

For more information on the security clearance procedure and the rights of the person subject to clearance, visit [www.supo.fi](http://www.supo.fi).

## Qualifications

- Masters degree or higher in relevant field (e.g. in automation, instrumentation, electronics and communication) and/or significant experience with eddy flux systems, GHG measurements and data management
- Perform field assignments under all Finnish weather conditions
- Knowledge on programming, electronics, data networking, experience in trouble shooting and handling scientific instruments, such as gas-analyzers and dataloggers
- Drivers license recognized in Finland (passengers car/van)

Preferred:

- Ability to communicate both in English and Finnish
- Ability and willingness to learn and adopt new technologies as needed
- Self-motivation, independence, and the ability to work with minimal supervision, as well as an ability and willingness to work as a member of the team
- Excellent organizational and documentation skills

## Scope of employment

Form of employment: Temporary employment

Scope: Office work

Commencement: 01/09/2021

or according to a contract

Time-limited to: 31/08/2024

Work is related to GHG development project

## Application

Last application date: 06/08/2021 16:00

Reference number: 30-376-2021

You can apply for this job via:

**Send a digital application via this link.**

You may also apply for this position by submitting your application to the address below. The job reference of the role must be cited both in the actual application and on the envelope. Applications will not be returned.

Luonnonvarakeskuksen kirjaamo

Latokartanonkaari 9

00790 Helsinki, FINLAND

The following documents should be attached to the application:

- CV
- Contact details of at least two references

## Salary

The position is at complexity level 7-9 in Luke's salary system. Therefore, the position-specific salary component is EUR 2 923,92 - 3 614,19 per month. In addition to the position-specific salary component, a salary component based on personal performance will be paid. It can be at most 50% of the position-specific salary component. The applicant may also present a separate salary request.

## Employment

Number of positions advertised: 1

## Contact

## Contact persons

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6.8.2021))

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## Office

Natural Resources Institute Finland

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## Other

Please note that the application period expires on August 6, 2021 at 4.00 pm (time in Finland, UTC + 3). Unfortunately, we are unable to consider late applications.

Read more: [Natural Resources Institute Finland \(Luke\)](#)

Trial period is 6 months.