

Technical specialist in Soil Spectroscopy

Do you want to be part of an international research environment?

The Department of Agroecology at Aarhus University is actively involved in supporting the agricultural green transition through research and innovation. We are engaged in building international collaborations to address global issues in agriculture and sustainability.

As a technical specialist, you can contribute to the department's continued development by supporting our students and the research staff.

The position is 30 hours per week and will be available from 1st May or as soon as possible thereafter.

Job Description

We are seeking a highly skilled and motivated **Technical Specialist in Soil Spectroscopy** to join our skilled team. The ideal candidate will have advanced knowledge in spectroscopic techniques, particularly **Vis-NIR (Visible-Near Infrared)**, **FTIR (Fourier Transform Infrared)**, and **LIBS (Laser-Induced Breakdown Spectroscopy)**.

This position offers a special opportunity to work at the intersection of cutting-edge research and practical application, contributing to important projects in soil science while supporting the next generation of researchers.

Key Responsibilities

Spectroscopy Laboratory Management:

- Operate, maintain, and optimize Vis-NIR, FTIR, and LIBS spectroscopy instruments for soil analysis.
- Develop and implement new methods, calibration models, and workflows for accurate soil characterization.
- Analyze and interpret spectral data to derive technical insights for research and applications.

Technical Support for Research and Projects:

- Support the implementation of soil spectroscopy techniques in various projects, ensuring high technical standards.
- Provide technical input to interdisciplinary research teams, ensuring the accurate application of spectroscopy in soil science. Support the preparation of scientific publications, prepare technical reports, and presentations based on spectroscopy data.

Training and Technical Guidance:

- Mentor and CO-supervise students in the technical aspects of soil spectroscopy, offering guidance on experimental design and data analysis.
- Provide applied training and workshops for students, technicians and researchers in spectroscopy techniques.

Collaboration and Outreach:

- Engage with academic, industrial, and governmental stakeholders to promote the application of soil spectroscopy.
- Represent the organization at conferences, workshops, and industry events.

Requirements

- A PhD degree in Soil Science, Environmental Science, Chemistry, Physics, or a related field.
- Documented experience with Vis-NIR, FTIR, and LIBS spectroscopy, including

Application Deadline:
07 March 2025

Faculty:
Faculty of Technical
Sciences

Institute/Faculty:
Department of
Agroecology

**Academic contact
person:**
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Vacant positions:
1

Hours per week:
30

**Expected date of
accession:**
01/05/2025

data analysis and interpretation.

- Solid background in soil spectroscopy applications and calibration model development.
- Experience in research projects, with a consistent ability to publish in peer-reviewed journals.
- Prior experience with supervising or mentoring students would be beneficial.
- High organizational skills, with the ability to coordinate multiple tasks and priorities efficiently.
- Service-minded attitude, willingness to adjust, and a collaborative approach to working in a team.

What we offer

- A well-functioning department with an international environment. We started a new education at AU-Viborg in the summer of 2024.
- A good working environment with close working relationships, social activities, and good networks
- A workplace characterized by professionalism, equality, and a healthy balance between work and private life.

We believe in promoting inclusion, acceptance and understanding by hiring people who bring new perspectives to our department.

Workplace

The workplace is AU-Viborg, Blichers Allé 20, 8830 Tjele.

Contact Information

For inquiries or additional information, please contact Mogens Humlekrog Greve (Greve@agro.au.dk)

Formalities and salary range

Salary and terms as agreed between the Danish Ministry of Taxation and the Confederation of Professional Unions.

The position is covered by the terms of collective agreements for academic staff in state institutions depending on qualifications and experience.

Aarhus University's ambition is to be an attractive and inspiring workplace for all and to foster a culture in which each individual has opportunities to thrive, achieve and develop. We view equality and diversity as assets, and we welcome all applicants.

The application must be submitted via Aarhus University's recruitment system, which can be accessed under the job advertisement on Aarhus University's website.

Aarhus University

Aarhus University is an academically diverse and research-intensive university with a strong commitment to high-quality research and education and the development of society nationally and globally. The university offers an inspiring research and teaching environment to its 38,000 students (FTEs) and 8,300 employees, and has an annual revenues of EUR 935 million. Learn more at www.international.au.dk/