Norwegian University of Life Sciences

Jobbnorge ID: 204748
Deadline: 5/10/2021
Website: http://www.nmbu.no
Scope: Fulltime
Duration: Fixed Term

PhD scholarship within Wood Technology

About the position

Faculty of Environmental Sciences and Natural Resource Management (MINA) at Norwegian University of Life Sciences (NMBU) has a vacant 3-year PhD-position. The focus of the project is to measure emissions of volatiles from wood products in indoor environments.

The goal of the PhD-project is to establish a model and an analytical strategy protocol for testing emissions from wood products in indoor environments according to the new European emissions testing method CEN/TS 16516, and to evaluate the impacts of emissions from wood on indoor air quality in modern wood constructions.

The project is a collaboration between MINA sections Forestry and Environmental Chemistry. The project will also involve research groups at other Faculties at NMBU.

Main tasks

The main tasks of the PhD will be:

- To establish a test laboratory to measure emissions according to the European standard for determination of emissions of VOCs in indoor air.
- Identify and quantify VOC emissions from wood products from Norwegian industry. This includes a variety of products, from untreated solid wood products to processed, treated and/or glued wood products.
- Measure concentrations of emissions in new buildings from cross-laminated timber with focus on student dormitories, and to ascribe the estimated emissions to the construction products used.
- Initiate a collaboration with industry, builders, and architects to evaluate how use of construction products from wood influence the indoor air quality in modern wood construction.
- The successful candidate is expected to enter a plan for the progress of the work towards a PhD degree during the first months of the appointment, with a view to completing a doctorate within the PhD scholarship period.

Competence

The successful applicant must meet the conditions defined for admission to a PhD programme at NMBU. The applicant must have an academically relevant education corresponding to a five-year Norwegian degree programme, where 120 credits are at master's degree level. The applicant must have a documented strong academic background from previous studies and be able to document proficiency in both written and oral English. For more detailed information on the admission criteria please see the PhD Regulations and the relevant PhD programme description. The applicant must document expertise and interest in the research subject.

Required Academic qualifications

- Master’s degree in a relevant scientific field, such as analytical chemistry, wood technology or building physics

The following experiences and skills will be emphasized:

- Knowledge of physical and chemical properties of wood
- Familiarity with multi-variate statistical methods
- Knowledge of quality assurance in chemical analyses
- Experience in instrumental chemical analysis
- Experience in construction engineering

You need to:

- Have the ability to work independently and as part of a team
- Have the ability to cooperate with colleagues in a multidisciplinary research group
- Have highly developed skills in written and oral communication
- Be flexible and solution-oriented

In addition, we would like the candidate to

- Exhibit a creative approach to analytical and related interdisciplinary challenges
- Have social skills and ability to contribute to both work related and informal settings

Remuneration and further information

The position is placed in government pay scale position code 1017 PhD. Fellow. PhD. Fellows are normally placed in pay grade 54 (NOK 482 200,-) on the Norwegian Government salary scale upon employment and follow ordinary meriting regulations.

Employment is conducted according to national guidelines for University and Technical College PhD scholars.

For further information, please contact Dr. scient. Anders Q. Nyrud, Professor, tel: +47 67231653, e-post: anders.qvale.nyrud@nmbu.no

Information for PhD applicants and general Information to applicants

Application

To apply online for this vacancy, please click on the 'Apply for this job' button above. This will route you to the University's Web Recruitment System, where you will need to register an account (if you have not already) and log in before completing the online application form.

Application deadline: 10.05.2021

Applications should include (electronically) a letter of intent, curriculum vitae, full publication list, copies of degree certificates and transcripts of academic records (all certified), and a list of two persons who may act as references (with phone numbers and e-mail addresses).

Publications should be included electronically within the application deadline. The relevant NMBU Department may require further documentation, e.g. proof of English proficiency.

Printed material which cannot be sent electronically should be sent by surface mail to Norwegian University of Life Sciences, Faculty of Environmental Sciences and Natural Resource Management , P.O. Box 5003, NO-1432 Ås, within 10.05.2021. Please quote reference number 21/01751.)

If it is difficult to judge the applicant’s contribution for publications with multiple authors, a short description of the applicant’s contribution must be included.

About The Faculty of Environmental Sciences and Natural Resource Management

The Faculty of Environmental Sciences and Natural Resource Management (MINA) works with nature and the environment, sustainable use of natural resources, biological and geological processes.

MINA’s employees undertake teaching, research and dissemination within the fields of geology, hydrology and limnology, soil science, environmental chemistry, forestry, ecology, natural resource management, renewable energy, and nature-based tourism.

Our vision is to be a key actor in knowledge production and dissemination, and our goal is to deliver research of high, international quality, and varied and excellent teaching. The faculty’s employees are significant participants within their respective fields of expertise, both nationally and internationally. The faculty is dominated by a vital research culture and high levels of scientific production.

The faculty has about 200 employees, 90 PhD students and 650 students.

Read more about MINA here.

The Norwegian University of Life Sciences (NMBU)

NMBU has a particular responsibility for research and education that secures the basis for the life of future generations. Sustainability is rooted in everything we do and we deliver knowledge for life. NMBU has 1,800 employees of which about 250 phd scholarships and 6,000 students. The university is divided into seven faculties and has campuses in Ås and Oslo. We will be co-located in Ås from 2021.

NMBU believes that a good working environment is characterised by diversity.

We encourage qualified candidates to apply regardless of gender, functional ability, cultural background or whether you have been outside the labour market for a period. If necessary, workplace adaptations will be made for persons with disabilities. More information about NMBU is available at www.nmbu.no.

Additional information

Place of service:

Universitetstunet 3 1430 Ås (Ås Municipality)