

NTNU - knowledge for a better world

The Norwegian University of Science and Technology (NTNU) creates knowledge for a better world and solutions that can change everyday life.

PhD position in plant cell biology / plant biophysics

A PhD position is available in the Department of Biology. The appointment has a duration of 3 years with the possibility of until 1 year extension with 25% teaching duties in agreement with the department.

Information about the department

The strategy of the Department of Biology is to understand biological processes of life for sustainable use and conservation of the environment. The Department has an interdisciplinary approach to education and research that is deeply rooted in environmental and evolutionary biology as important links between the different sub-disciplines (cell- and molecular biology, systems biology, physiology, ethology, ecology, population genetics, marine sciences, aquaculture, biodiversity and environmental toxicology). For more information about the department go to: <http://www.ntnu.edu/biology>

Job description

The theme of the PhD research is development of novel, quantitative tools to detect physical forces and their application to understand processes taking place in plant cells during development and interaction with the environment. This project will involve a combination of molecular biology approaches with development of imaging methods (using atomic force, confocal, electron microscopy and live cell imaging). In general the research group has a strong interest in plant cell wall signaling and interactions between the plant and the environment. More detailed information about the host group and ongoing research activities can be found here: <https://www.ntnu.edu/biology/research/molecular-systems-biology/functional-plant-biology>

Detailed information on our PhD programs is found at: <http://www.ntnu.edu/nt/research/phd>

Qualifications

We are seeking a motivated, enthusiastic person with a thorough understanding and knowledge in at least one of the following areas: plant cell biology, biophysics, plant molecular biology, plant responses to biotic or abiotic stress.

The applicant must have an MSc (or equivalent) in Biology or Physics and a documented strong background in molecular biological methods. Experience with modern imaging and microscopy methods including confocal / atomic force / electron / brillouin microscopy will be considered an advantage.

The successful candidate should also be creative, with a strong ability to work problem oriented. He/she should also enjoy interdisciplinary research and take keen interest in learning and working in teams.

The regulations for PhD programmes at NTNU state that a Master degree or equivalent with at least 5 years of studies and an average grade of A or B within a scale of A-E for passing grades (A best) for the two last years of the MSc is required. Candidates from universities outside Norway are kindly requested to send a Diploma Supplement or a similar document, which describes in detail the study and grade system and the rights for further studies associated with the obtained degree: http://ec.europa.eu/education/tools/diploma-supplement_en.htm

The position requires spoken and written fluency in the English language. Applicants from non-English-speaking countries outside Europe must document English skills by an approved test. Approved tests are TOEFL, IELTS and Cambridge Certificate in Advanced English (CAE) or Cambridge Certificate of Proficiency in English (CPE).

Terms of employment

The appointment of the PhD fellows will be made according to Norwegian guidelines for universities and university colleges and to the general regulations regarding university employees. Applicants must agree to participate in organized doctoral study programs within the period of the appointment and have to be qualified for the PhD-study.

NTNU's personnel policy objective is that the staff must reflect the composition of the population to the greatest possible extent.

The position as PhD is remunerated according to the Norwegian State salary scale. There is a 2% deduction for superannuation contribution.

Further information can be obtained from professor Thorsten Hamann, Department of Biology, NTNU, E-mail: thorsten.hamann@ntnu.no

The application

Applications with CV, certificates from both Bachelor and Master, possible publications and other scientific works, copies of transcripts, (copies of documentation on English language proficiency test) and reference letters should be submitted.

Applications must be submitted electronically through www.jobbnorge.no.

Applications submitted elsewhere will not be considered.

The reference number of the position is: NV- 79/18

Application deadline: July 1st

Jobbnorge ID: 154086, Deadline: The application deadline has passed