



Ref. No. SU FV-0984-17

at the Department of Ecology, Environment and Plant Sciences. Closing date extended: 30th June 2017.

At the Department of Ecology, Environment and Plant Sciences at Stockholm University research and education are conducted in an international environment. The subject areas include marine and plant ecology, ecotoxicology, plant physiology and plant systematics. Some of the research has direct environmental and societal relevance and approaches are often broad and interdisciplinary. About 140 people are working at the Department, among which 35 are teachers or senior researchers, and ca. 50 are PhD students.

Project description

The project aims to understand lignin formation, and more precisely lignin oxidative polymerisation, during plant development and will be conducted in a dynamic and active group working on plant cell differentiation and coordination in plant tissues. Lignin, a polyphenolic plant cell wall polymer, is the second most abundant polymer in the biosphere. One of its functions is to reinforce the plant vascular system to transport water and minerals from the soil to all aerial organs. The molecular mechanisms controlling lignin formation in plants are yet largely unknown. In continuation of the breakthroughs made by the research team (Pesquet et al., *Curr Biol.* 2010; Pesquet et al., *Plant Cell* 2013; Derbyshire et al., *Plant Cell* 2015), a range of experimental approaches combining genetics, cell and molecular biology as well as biochemistry and proteomics will be applied to shed light on how lignin assemble in plant vascular tissues.

Qualification requirements

In order to meet *the general entry requirements*, the applicant must have completed a second-cycle degree, completed courses equivalent to at least 240 higher education credits, of which 60 credits must be in the second cycle, or have otherwise acquired equivalent knowledge in Sweden or elsewhere.

In order to meet *the specific entry requirements*, the general syllabus for doctoral studies in the field of Plant Physiology stipulates, that applicants must have completed at least 60 higher education credits in the second cycle, of which 15 credits must be from a course in Plant Physiology and 30 credits from a project in Plant Physiology. Applicants may also have otherwise acquired equivalent knowledge in Sweden or elsewhere.

Only a person who will be or has already been admitted to a third-cycle programme may be appointed to a doctoral studentship. The primary assessment criteria in appointing a doctoral student should be the capacity to benefit from the training.

Selection

The selection among the eligible candidates will be based on their capacity to benefit from the training. The following criteria will be used to assess this capacity: the candidates' documented subject knowledge with relevance for the project; knowledge of methods and experimental skills; creativity and analytical competence; initiative and independence; ability to communicate well both orally and in writing and collaboration skills. Previous successful experience in plant genetics, imaging techniques and cell biology are merits for the position.

Admission Regulations for Doctoral Studies at Stockholm University are available at: www.regelboken.su.se.

Terms of employment

The term of the initial contract may not exceed one year. The employment may be extended for a maximum of two years at a time. However, the total period of employment may not exceed the equivalent of four years of full-time study.

Doctoral students should primarily devote themselves to their own education, but may engage in teaching, research, and administration corresponding to a maximum of 20 % of a full-time position.

Please note that admission decisions cannot be appealed.

Stockholm University strives to be a workplace free from discrimination and with equal opportunities for all.

Contact

For more information, please contact Professor Lisbeth Jonsson, telephone: +46 8 16 12 11, lisbeth.jonsson@su.se.

Further information about the project can be obtained from Edouard Pesquet, telephone: +46 72 203 3209, edouard.pesquet@su.se.

Union representatives

Anqi Lindblom-Ahlm (Saco-S) and Lisbeth Häggberg (Fackförbundet ST and Lärarförbundet), telephone: +46 8 16 20 00 (operator), seko@seko.su.se (SEKO), and PhD student representative, doktorandombud@sus.su.se.

Application

Apply for the position at Stockholm University's recruitment system by clicking the "Apply" button. It is the responsibility of the applicant to ensure that the application is complete in accordance with the instructions in the job advertisement, and that it is submitted before the deadline. We recommend that you hand in your application, including necessary documents, in English.

Please include the following information with your application

- Your contact details and personal data
- Your highest degree
- Your language skills
- Contact details for 2–3 references

and, in addition, please include the following documents

- Cover letter, including
 - your expectations from, and intentions with the education
 - why you are interested in the field/project described in the advertisement
 - what makes you suitable for the project in question
- CV – degrees and other completed courses, work experience and a list of degree projects/theses
- Degree certificates and grades confirming that you meet the general and specific entry requirements (no more than 6 files)
- Degree projects/theses (no more than 3 files).

The instructions and web application are available at:

<http://www.su.se/english/about/vacancies/vacancies-new-list?rmpage=job&rmjob=3080>