PhD student in Plant Physiology (B)

Ref. No. SU FV-0191-17

Apply


At the Department of Ecology, Environment and Plant Sciences at Stockholm University research and education is conducted in an international environment. The subject areas are marine and plant ecology, ecotoxicology, plant physiology and plant systematics. Some of the research has direct environmental and societal relevance and the approach is often broad and interdisciplinary. About 150 people are working at the department, of which ca. 60 are teachers and researchers and 50 are PhD students.

Project description
The position will be associated with the long-term research on nitrogen-fixing root nodule symbioses in the research group of Katharina Pawlowski (www.su.se/english/profiles/kpawl-1.192435). The overall aim of the research is to understand the evolution of nitrogen-fixing root nodule symbioses and which plant features are required to evolve such a symbiosis. The core of the PhD project is to investigate the induction of nodules on the model species for actinorhizal Cucurbitales, Datisca glomerata, and to confirm certain features by comparative analyses of the corresponding genes in another actinorhizal genus from Cucurbitales, Coriaria (Coriariaceae). The main training will be in laboratory work (isolation of DNA and RNA from plants and bacteria, real time RT-PCR, molecular cloning, cytological analyses, tissue culture). The work will also involve phylogeny and bioinformatics.

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 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, or have otherwise acquired equivalent knowledge.

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 documented knowledge in a relevant field of research, knowledge of relevant methods and experimental proficiency, written and oral proficiency in English, the capacity for analytical thinking, the ability to collaborate, as well as creativity, initiative and independence. Experience with molecular biological and bioinformatics methods, cytology and quantitative analyses are a merit for the project. The assessment will be based on previous experience and grades, the quality of the degree project, references, relevant experience, interviews, and the candidate’s written motivation for seeking 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 Katharina Pawlowski, telephone: +46 8 16 37 72, katharina.pawlowski@su.se.
**Union representatives**
Anqi Lindblom-Ahlm (Saco-S) and Lisbeth Häggberg (Fackförbundet SF 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 (2–3 pages), where you describe:
  - your expectations of and motivation for the training
  - why you are interested in the particular project
  - what makes you suited for the project
- CV – degrees and other completed courses, work experience and a list of degree projects/theses/publications (if any)
- Degree certificates and grades confirming that you meet the general and specific entry requirements (no more than 6 files)
- Degree project/other publications (no more than 3 files)

The instructions for applicants are available at: [Instructions – Applicants](http://www.su.se/english/about/vacancies/vacancies-new-list?rmpage=job&rmjob=2577&rmlang=UK).

**You are welcome to apply!**

*Vi är ett av Europas ledande universitet i en av världens mest dynamiska huvudstäder. En relation med Stockholms universitet är meriterande oavsett om du är student, forskare eller intressent. Hos oss ger utbildning och forskning resultat.*

**Closing date:** 03/03/2017

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