Open position in Evolutionary Genomics
PhD Student Position in a Swedish Research Council Funded Project

• Do you want to analyze cutting-edge genomic data to study the evolution of a classic supergene?
• Do you want to revisit a classic plant system described by Darwin using a modern approach?
• Are you interested in evolution and population genetics?
• Do you enjoy problem solving and want to learn more bioinformatics?

Then you may be the person we are looking for!

Apply by September 28, 2020

• In this project, we are using the latest genomic tools and advanced evolutionary genetic analyses to test hypotheses on the evolution of one of the first discovered supergenes.
• We are doing this in the genus Linum, a classic plant system uniquely suited for this purpose.

Infrastructure and Environment
The PhD student will join a group of postdocs and PhD students led by Dr. Tanja Slotte (tanjaslottelab.se) at Stockholm University. This project is supported by the Swedish Research Council.

tanjaslottelab.se tanja.slotte@su.se www.su.se
Ref. No. SU FV-3199-20

at the Department of Ecology, Environment and Plant Sciences. Closing date: 28 September 2020

Research and education at Stockholm University at the Department of Ecology, Environment and Plant Sciences (DEEP) is located in the Arrhenius Laboratories, situated at the University Campus at Frescati. Research carried spans across a broad range of biology subject areas including Ecology and Evolution, Ecotoxicology, Marine Biology, Plant Physiology and Plant Systematics. Presently around 140 people are working at DEEP using state-of-the art methodologies in an international research environment characterized by world-recognized researchers and a high level of professionalism.

Project description
A four-year PhD position on supergene evolution is available in Dr. Tanja Slotte's group in the Department of Ecology, Environment and Plant Sciences, Stockholm University. This is an international call.

The Slotte group uses evolutionary genomic analyses to better understand the origin and evolution of supergenes, and the genomic consequences of mating system shifts in a variety of plant systems. The PhD project is expected to be in this area and will involve generation of and analyses of comparative genomic and population genetic data sets. The focus will be on the evolution and loss of a supergene that governs mating system in wild Linum (flaxseed) species, with a particular focus on the role of structural variation. The project is funded by the Swedish Research Council.

The ideal candidate will have a strong background in evolution, population genetics, and/or bioinformatics. During the PhD project, training for both general and specific skills will be available, and there are also possibilities for interaction with international collaborators. The working language in the group is English.

For your application to be fully considered, please read relevant literature and tailor your cover letter and application accordingly. We are flexible with respect to start date, but sooner is better than later.

For more information, please contact Tanja Slotte (tanja.slotte@su.se).

Qualification requirements
Swedish and most EU educational credits: 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 Ecology and Evolution 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 one of the areas Ecology or Evolution, and 30 credits from a project in one of the areas Ecology or Evolution. Applicants may also have otherwise acquired equivalent knowledge in Sweden or elsewhere.

For UK education systems, general and specific entry requirements are typically equivalent to an MBiolSci or equivalent (4-year undergraduate degree with the last year having at least half the credits associated with a research project and associated write up) or an MSc.

For US education systems, this is typically the equivalent of an MSc.

The qualification requirements must be met by the start of the PhD. If you are uncertain about whether your qualifications meet the entry requirements, you should still apply and we will determine whether you are eligible.

Selection
The selection among eligible candidates will be based on their capacity to benefit from the training. The criteria used in the selection for admittance to research training in Ecology and Evolution are knowledge of theory and
applications in the research field, ability to communicate orally and in writing, knowledge of English, creativity, analytic competence, initiative, independence and collaboration ability, as well as good organizational skills. We are looking for applicants with a strong interest in evolutionary genetics, and a desire to work with genomic analyses.

Prior experience of bioinformatic analyses or other computational work is desired but not required. Experience of basic molecular genetics lab work or experimental work with plants is beneficial but not required.

Admission Regulations for Doctoral Studies at Stockholm University are available at: www.su.se/rules and regulations.

Terms of employment
Only a person who will be or has already been admitted to a third-cycle programme may be appointed to a doctoral studentship.

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 project leader Dr. Tanja Slotte, tanja.slotte@su.se.

Union representatives
Ingrid Lander (Saco-S), telephone: +46 708 16 26 64, saco@saco.su.se, Alejandra Pizarro Carrasco (Fackförbundet ST/Lärarförbundet), telephone: +46 8 16 34 89, alejandra@st.su.se, seko@seko.su.se (SEKO), and PhD student representative, doktorandombud@sus.su.se.

Application
Apply for the PhD student position at Stockholm University’s recruitment system. It is the responsibility of the applicant to ensure that the application is complete in accordance with the instructions in the 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 university degree
• Your language skills
• Contact details for 2–3 reference persons

and, in addition, please include the following documents

• Cover letter (2–3 pages), containing
  Your expectations from, and intentions with the education
  Why you are interested in the specific project
  What makes you suitable for the specific project
• 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 6 files).

The instructions for applicants are available at: Instructions – Applicants.

You are welcome to apply!
Stockholm University contributes to the development of sustainable democratic society through knowledge, enlightenment and the pursuit of truth.

Closing date: 28/09/2020

URL to this page: https://www.su.se/english/about/working-at-su/phd?rmpage=job&rmjob=12939&rmlang=UK

Apply