

Project: Evolutionary relevance of non-genetic inheritance We are seeking a highly motivated PhD student with an interest in evolutionary ecology to take part of the research project [UTF-8?]â€œ Epigenetic inheritance and its evolutionary consequences on the genetic architecture of complex [UTF-8?]traitsâ€œ, with financial support from the Swedish Research Council. The project aims to investigate central biological questions on how non-genetic (e.g. [UTF-8?]â€œ epigeneticâ€œ) parental effects influence the expression of complex traits. Such epigenetic effects may be induced by, for example, environmental conditions or the interactions between the nuclear DNA and the cytoplasmic DNA. Understanding epigenetic effects has implications for core evolutionary processes such as heritability, maintenance of genetic variation and speciation. Still, we have only a rudimentary understanding of how evolutionary processes are affected by these epigenetic effects. Using two study systems (Drosophila and Poeciliid fishes) and combining experimental manipulations with molecular methods the project will explore how non-genetic parental effects can be caused by either the cytoplasmic DNA or environmental conditions. The project also aims at investigating the inheritance of these epigenetic effects, and how they affect evolutionary processes [UTF-8?]â€œ an important and exciting field in biology. The PhD project involves experiments, molecular lab-work and statistical analysis. **PhD student position** in Animal Ecology at the Department of Zoology. Reference number SU FV-2470-14.

Deadline for applications: October 1, 2014. **Qualifications** To be qualified for research studies in animal ecology the applicant must have completed a research degree (e.g. [UTF-8?]Masterâ€œs), or have passed at least 120 hp (2 years) of biological studies, including an approved independent project of at least 30 hp at advanced level [UTF-8?](â€œ examensarbeteâ€œ) within ecology, evolutionary biology or related subjects. Applicants, who have in principle acquired the corresponding competence in Sweden, or abroad, are also qualified. **Criteria for selection** Among qualified applicants, selection is made according to the ability to profit from the studies. The criteria to be used are properly documented competence within the described research area, capabilities with regards to speaking and writing in English, analytical thinking, creativity, initiative, independence, and team work performance. Experience with statistical analysis is an advantage. The [UTF-8?]applicantâ€œs earlier experience within the field of research can be of relevance especially when further documented by university courses, independent research works, personal references, interview and an application indicating the [UTF-8?]applicantâ€œs motivations in written form. **Terms of employment** The PhD studies include 48 months of full-time studies with employment as PhD student. The salary starts at 23.700SEK/month. **Information** Contact for further details Dr. Bjorn Rogell,

bjorn.rogell@zoologi.su.se

, at the Department of Zoology. Union representatives Anqi Lindblom-Ahlm (Saco-S) and Lisbeth Haggberg (Fackföbundet ST), telephone:

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(switchboard), and Gunnar Stenberg (SEKO), telephone:

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. **Application** The application should contain: maximum one A4-page of personal presentation and letter of intent/motivation CV (including methodological skills) copy of independent project thesis copies of degree certificates and transcripts of academic records (attested) contact details for two academic referees. In order to apply for this position, please use the Stockholm University web-based application form (where it is possible to select

language). Link:

<http://www.su.se/english/about/vacancies/phd-studies/phd-student-position-in-animal-ecology-1.201806>

Welcome with your application no later than October 1, 2014.