



## UNIVERSITY OF GOTHENBURG

### AVAILABLE POSITION

05<sup>th</sup> of March 2010 Ref nr E 333 558/10

University of Gothenburg, Faculty of Science, Department of Zoology, announces an available position as

### **Postdoctoral Research Fellow in Zoophysiology**

Zoophysiology, at the department of Zoology conducts research on integrative physiology with focus on adaptation and acclimation of organisms to various environments, and more importantly to changes in the environment. It is mainly basic research aiming at giving the mechanistic, chemical and physical background to various life functions and the target organisms are fish. This also results in applied applications within e.g. aquaculture. The position is a result of the increased engagement of the department in national strategic research projects to promote the development of a sustainable aquaculture industry in Sweden. The holder of the position will be involved in the development of a national platform of competence for Swedish aquaculture.

#### **Responsibilities**

The position constitutes own research, scientific collaboration and development of techniques. You will conduct research and development within aquaculture related fish physiology with focus on development of sustainable feed sources, as well as welfare issues related to the Swedish aquaculture. Species of interest will be rainbow trout, Arctic char, Atlantic cod and other marine fish species. The goal of the research is to investigate the effects of sustainable feed sources, such as micro organisms and mussels, on nutrient uptake, energy utilization, health and welfare in aquaculture fish. The work will involve *in vivo* experiments using vascular cannulation, blood flow measurement, respirometry and behavioral studies. Telemetry based recording equipment will be used in some of these studies. The work will also involve development of a new *in vivo* intestinal biopsy technique. You will also work with and develop a number of *in vitro* and biochemical analysis tools such as the Ussing chamber technique, histology, immunohistochemistry, enzyme kinetics and radio immunology. Later on in the project, methods in molecular biology including RT-PCR are planned. The position involves teaching to a smaller degree, as well as supervision of students and Ph.D. students. The position is based at the department of Zoology, University of Gothenburg, but will also involve work at Aquaculture Centre North, Kålarne, Jämtland. Experimental work at the The Sven Lovén Centre for Marine Sciences, University of Gothenburg is also planned later on in the project.

#### **Qualification requirements**

Ph.D. with focus on fish physiology is required. The qualification requirements as stated in the Higher Education Ordinance are applied for the position. Teaching in Swedish or English is required

## **Assessment**

Scientific merits are most important in the assessment of the applicants and are shown by peer-reviewed publications within the subject area of the position and through documented knowledge in experimental physiological work on fish at the level of the intact animal (*in vivo*), as well as with isolated organs (*in vitro*). Examples of such work might include advanced surgical techniques, circulatory and respiratory physiology, stress physiology, nutrition, health and welfare. In addition, after scientific merits, the second most important ground for assessment is the ability of the applicant to take responsibility and to take initiative as well as the ability both to work in a team as well as independently. The position is linked to a national collaboration and social skills and interpersonal skills are consequently important and thus highly meritorious. This includes the ability to supervise project workers, Ph.D. students, lab technicians as well as junior- and senior researchers, such as during transfer of skills and techniques within the research network. Also included in the assessment is the flexibility of the applicants to periodically conduct experimental work and participate in methodological courses and/or workshops away from the home department. The successful candidate is also expected to attract own research funding.

## **Further information about the position**

Information about the position can be obtained from Professor Lars Förlin, Head of the Department of Zoology (Phone +46 (0)31 786 3676, email [lars.forlin@zoology.gu.se](mailto:lars.forlin@zoology.gu.se)). For further information about the department, please visit our website at <http://www.zoologi.gu.se/english/>

## **Extent of employment**

The employment is limited to four years, full time.

## **Union representatives:**

Union representatives: Martin Björkman, phone +46 (0)31 – 786 3608, OFR/S Astrid Igerud, phone +46 (0)31 – 786 11 69, SEKO Lennart Olsson, phone +46 (0)31 – 786 11 73.

## **Selection Process**

The selection process will include evaluation by external experts and interviews.

## **Application**

Applications must be written in English and submitted to the Dean, Faculty of Science, University of Gothenburg.

Applications must include:

- Complete curriculum vitae, verifications of work experience, and any other documents to which the applicant chooses to refer.
- A written account of scientific and teaching experiences and any others of relevance to the position sought, as well as priorly awarded research funding (limit four pages). Applicants should make clear on which merits they wish primarily to be evaluated.
- Full list of publications
- Documentation of the applicant's pedagogical merits. Documentation must include information of teaching, and any other pedagogical activities, in quantitative as well as qualitative terms.
- A selection of at most five scientific publications which are not included in Ph.D. thesis.
- Contact information for two references.

**A complete copy of the application must be sent—electronically—to the university through the following website:**

<http://www.science.gu.se/english/application/e33355810>

Here applicants will find further instructions for how to submit their applications electronically.

Also, a complete hardcopy of the application must be sent—by regular mail—to the university at the following address:

**Registrar, University of Gothenburg, Box 100, 405 30 Gothenburg, Sweden.**

Mark the application with the following **reference: E 333 558/10**

Applications—in both electronic and paper versions—must have arrived in our offices by the end of the day on **Monday March 29<sup>th</sup> 2010.**

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