

Doctoral student in Environmental Microbiology with emphasis on the Deep Biosphere Kalmar

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The Department of Biology and Environmental Science is part of the Faculty of Health and Life Sciences. The research activities within this multidisciplinary department include the areas of aquatic ecology, cell and organism biology, evolutionary biology, microbiology, environmental science and environmental engineering as well as zoonotic ecology.

Field of subject for the appointment: Environmental Microbiology with emphasis on the Deep Biosphere

Placement city: Kalmar

Job description

The 'deep terrestrial biosphere' contains a significant portion of the earth's total biomass and despite existing in 'extreme slow motion' due to the highly oligotrophic conditions; these microbes can play a significant role in global nutrient cycles. However, due to its size and the difficulty of obtaining samples, the deep terrestrial biosphere is one of the least understood environments on earth.

The research project will investigate the deep biosphere present in terrestrial crystalline rock fracture systems. The project will use 'multi omics' on biofilms, activity measurements, single amplified genome interrogations of attached cells, and electron microscopy visualizations to investigate mechanisms for growth and survival in deep terrestrial biosphere microorganisms.

According to the Higher Education Ordinance a person appointed to a doctoral studentship should primarily devote himself/herself to his/her own studies. However, an appointee may work to a limited extent with education, research, artistic development, and administration. However, before a doctoral degree has been awarded, duties of this kind may not comprise more than 20% of a full-time post.

Requirements

A person fulfils the general entry requirements if he/she

- Has been awarded a degree on second-cycle level

- Completed the requirements for courses comprising at least 240 credits, of which 60 credits on second-cycle level, or
- in other way, in Sweden or abroad, has acquired principally equivalent knowledge.

Specific requirements also include

- a high proficiency in written and spoken English
- to be able to solve problems
- ability to work independently as well as interact well in a research group.

Assessment grounds

- although the position is primarily in environmental microbiology, knowledge of bioinformatics and the ability to code would place the candidate at an advantage.

Application

Last day for application is December 19, 2018

For further information

Please contact Professor Mark Dopson (mark.dopson@lnu.se), +46-(0)480-447334; Head of Department Per-Eric Betzholtz (per-eric.betzholtz@lnu.se), +46-(0)480-446238; or HR partner Christian Andersson (christian.andersson@lnu.se)

Linnaeus University has the ambition to utilize the qualities that an even gender distribution and diversity brings to the organization.

Please apply by clicking on the Apply link at the bottom of the ad. Applicants are requested to the application resolving CV, cover letter, a copy of a relevant essay, grades and certificates and other relevant documents. The applicant also requested to submit with their application a proposed research plan within the current area of research. All documents must be attached to digital in the application. The application and other documents shall be marked with the reference number. All documents cited must be received by the University no later than 24.00 (Local time in Sweden) on the closing day.

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