



GÖTEBORGS UNIVERSITET

Positions offered at Gothenburg University, Gothenburg, Sweden

Job description -- Two postdoctoral positions in microbiology/molecular biology/analytical chemistry at the University of Gothenburg. The first position is part of a project examining the role of microbial populations in recirculating aquaculture systems (RAS), in anaerobic digesters and in hydroponics (HYP) units with the goal of better understanding conditions that will maximise beneficial transfers of microbes and their products among components of decoupled aquaponics systems. A second candidate will work on bacterial relationships in biofloc within recirculating aquaculture systems (RAS). These positions require excellent English proficiency but do not require EU or Swedish residency as they are open to all international applicants. The positions are based in Gothenburg Sweden, but successful candidates must be willing to travel frequently and for extended periods within Europe and overseas as the project will run for two years in conjunction with four collaborating international laboratories. Salaries are €41,000 with excellent benefits including health coverage, paid vacation and considerable international travel. Please find more details of each position at:

<https://academicpositions.se/ad/university-of-gothenburg/2017/two-postdoctoral-positions-in-microbiology-molecular-biology-analytical-chemistry-at-the-university-of-gothenburg/105679>

Candidate requirements

Successful candidates must possess a PhD in molecular biology, microbiology, biochemistry, veterinary medicine, bioengineering, biotechnology, cell biology or related disciplines. It is not a requirement that the candidate has experience with aquaponics or prior experience in hydroponic crop production (commercial greenhouse facilities) and/or the operation of recirculating aquaculture systems, but such experience would be useful. Please note clearly on your application if you have any relevant skills such as technical operation of aquarium/aquaculture tanks, hydroponics or irrigation systems, or prior work in the operation of multiphase bioreactors. Please also indicate on your application if you have relevant experience including prior coursework or relevant industry internships/collaborations in at least two of the following areas: bioprocess engineering, biochemistry, molecular biology, microbiology, bioinformatics, analytical chemistry, or microbial genomics. Experience in several of the following methodologies will also be advantageous: microscopy techniques with confocal, epifluorescence, digital holographic or multi-photon, super-resolution (STED,

dSTORM, etc) and/or electron microscopy, techniques for culturing cells and microbes, identifying cell signalling molecules, chromatography (HPLC / GC), fluorescent tags/probes, UV spectroscopy). For the second position, we will consider applicants with strong background in analytical chemistry, with demonstrated experience with various analytical biochemical techniques (e.g. UV-visible and FITR spectroscopy, mass spec) and microscopy (e.g. epifluorescence, holographic digital, CLSM).

Further details--Good communication skills in English (written and spoken) are necessary. International applicants will be eligible for Swedish residency permits if hired. The position involves frequent international travel as the work is being conducted with partners in four different international laboratories. The candidate must therefore demonstrate a willingness and ability to work for extended periods in different countries as the project will require longer collaborative periods in partner labs. The candidate will also help host visiting researchers from these foreign labs in Sweden. Candidates without any prior international work/study experience will not be considered.

If the following items are not evident on the CV, please state clearly in the cover letter the following requirements:

1-Proof of research and scientific writing skills with at least 3 published peer-reviewed articles as first author in peer-reviewed journals (please also highlight any technical reports written). Full-text of these articles must be provided with the application.

2-Demonstrated statistical, including work with R or other relevant software. A start date is required prior to April 31, 2018, but the exact start date for this position is negotiable depending on the availability of a suitable candidate. The post-doctoral fellows (PDF) will be hired for a two-year period, with the possibility for contract renewal based on performance.

Possible start of employment: Tuesday, 01 May 2018.

Contract: Full-time, Fixed-term

Salary: €41,000 with all health benefits, paid vacation and travel

How to apply -- Please read job descriptions carefully before applying.

Application email: alyssa.joyce@gu.se

Application deadline: Monday, 15 January 2018