

Postdoctoral Fellowship – BC Centre for Aquatic Health Sciences and University of Prince Edward Island (Atlantic Veterinary College)

Background

The BC Centre for Aquatic Health Sciences (BCCAHS, Dr. Ahmed Siah) in collaboration with University of Prince Edward Island (AVC, Dr. Mark Fast) is seeking postdoctoral research in bioinformatics. The candidates will integrate a multidisciplinary team from both laboratories. The successful candidate will be working on the discovery of Single Nucleotide Polymorphisms of sea lice selected as tolerant to Emamectin Benzoate (EMB).

This position will be based at BC CAHS located in Campbell River on Vancouver Island (BC, CANADA) and remotely working with a collaborative group of researchers from both the West and East Coast of Canada. The project is funded by NSERC Alliance and several stakeholders including the Aquaculture industry and pharmaceutical companies.

Qualifications

- PhD in Population genetics, Computational biology, molecular statistics, molecular biology, computer sciences and related fields (Mathematics, Statistics, Molecular biology)
- Experience in applied bioinformatics with a track record in next-generation sequence analysis with a strong statistical background.
- Experience in method development in genomics such as machine learning analysis (neural networks, clustering methodologies, Bayesian analysis and inference, MCMC)
- Extensive track records of publications in computational research
- Proficient in Linux, Perl, Python, R and Java
- Good communication and soft skills

Requirements

- Whole genome analysis using Next Generation of Sequencing (short and long reads)
- Bioinformatic and statistical analysis of NGS sequence for SNP discovery
- Writing bioinformatic scripts and pipelines for SNP discovery
- Statistical genomic sequences analysis and data management
- Designing sequence databases for efficient analysis
- Writing research papers in high-impact peer-reviewed journals

Application

The applicants should submit their applications to Dr. Ahmed Siah ahmed.siah@cahs-bc.ca and should include:

- Cover Letter demonstrating the relevant experiences
- Curriculum vitae
- Major publications highlighting the contribution of the candidate
- Three references including name, phone number and emails
- This is a two-year position starting immediately. The review process will start on April 3rd until the position is filled.