

Research Associate – Molecular Biology/Disease Ecology/Diagnostics

Gloucester Marine Genomics Institute, Gloucester, MA

Gloucester Marine Genomics Institute (GMGI) is an exciting new independent marine biotechnology research institute that is applying innovative genomic technologies to marine science for discoveries that impact fisheries and human health. GMGI has a full-time position for a Research Associate who will play an important role in contributing to GMGI's fishery genomic and aquatic disease diagnostic programs.

The successful candidate must have strong experience in molecular biology/ecology and a documented knowledge of common and advanced laboratory techniques. The candidate must be capable of working independently to design experiments, generate high quality data and analyze results for a variety of molecular projects directed by GMGI scientists. Experience with marine diseases, development of species-specific primer/probe-based assays, CRISPR techniques, and qPCR and rt-qPCR are highly desirable. This position is an extraordinary opportunity for an ambitious and entrepreneurial person who is interested in helping to create a world-class research institute.

Responsibilities

- Design and execute experiments using molecular biology/genomics techniques
- DNA/RNA isolations and quantification, PCR, qPCR, rt-qPCR, RPA, CRISPR
- Next-generation sequencing using the Illumina platform
- Strong knowledge of experimental design, bioinformatics, and statistics
- Design and development of species-specific molecular assays
- Develop protocols for evaluating diagnostic assay specificity and sensitivity
- Prepare reports as requested and contribute to grant proposals and manuscripts
- Background reading suited to individual projects
- Training of staff or interns on research techniques as required

Qualifications

- Bachelor's or Master's degree in biology, molecular biology, marine biology, or related fields
- Background in fisheries, aquaculture, and disease ecology
- Background with diagnostic assessment methods (e.g. qPCR, rt-qPCR)
- Capable of planning and executing experiments with minimal supervision
- Experience working with modern molecular biology/genomics instruments
- Basic knowledge of languages for biological data analysis (e.g. Perl, Python, R)
- Familiarity with the Linux environment
- Excellent writing and documentation skills
- Excellent communication and teamwork skills
- Integrity towards scientific research and data quality
- Capable of working in a start-up environment, with work changing to adapt to needs

- Enthusiasm and commitment to GMGI's mission for science and education
- Self-starting, independent, creative thinker with strong problem-solving skills

This position requires the desire, persistence and ability to work in a start-up environment and to help build a transformative research institute.

This position will report to the Fisheries Research Scientist.

Job Type: Full-time

Salary: commensurate with experience

Benefits: yes

Posting Expires: when position is filled

How to Apply: Please send a cover letter and curriculum vitae to Timothy Sullivan PhD, tim.sullivan@gmgi.org

About GMGI

Gloucester Marine Genomics Institute (GMGI) is an independent marine biotechnology research institute. Founded in 2013 by three prominent scientist entrepreneurs, with legendary experience in the biotechnology field, GMGI is positioned to influence a new era of discovery and innovation in marine science.

It is envisioned that GMGI will evolve into an eminent research institute focused on using the power of “omics” technologies to promote sustainable fisheries and uncover new discoveries in biomedicine and biotechnology. These new opportunities will enable formation of startup companies, leveraging any resulting intellectual property and innovations, and produce a powerful economic driver that will sustain the future Cape Ann economy and offer the region's citizens exciting new career paths. In addition, GMGI has launched a biotechnology training academy and is committed to establishing beautiful Cape Ann as a world-class science hub.