

Marine Microbial Genomics Scientist

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. A major area of focus is using genomics to mine the rich genetic diversity of marine microorganisms for discovery of novel chemical and biological entities with applications in medicine, biotechnology and industry. GMGI is looking for a Marine Microbial Genomics Scientist with a background in chemical ecology or marine natural products and expertise in next generation sequencing and metagenomic data analysis to lead this research program. Priority will be given to candidates who can develop innovative approaches to data analysis with a focus on applied research.

The ideal candidate will have strong leadership skills, excellent communication skills and the ability to work with a multi-disciplinary team of collaborators from academia and the biotech industry. This position is an extraordinary opportunity for an innovative and entrepreneurial scientist who is excited to be part of the team building a world-class research institute.

Responsibilities:

- Design experimental plans for marine sample collection based on knowledge of microbial and chemical ecology
- Oversee the collection and preparation of samples for DNA sequencing
- Analyze genomic and metagenomic data using a bioinformatics pipeline optimized for discovery of genes and biosynthetic gene clusters encoding therapeutic and commercially important entities
- Contribute to development and improvement of the bioinformatic analysis pipeline
- Oversee the expansion of a repository for bacteria and fungi from marine samples
- Work with academic and biotech industry collaborators to develop novel discoveries of commercial interest
- Establish new research projects consistent with GMGI's mission
- Assist in grant writing and fund-raising efforts for the institution
- Lead publication of results in scientific journals and reports
- Give presentations to stakeholders, general public and scientific audiences
- Contribute to GMGI's commitment to create a scientific community on Cape Ann
- Supervise technical staff and interns

Qualifications:

- PhD, or equivalent post-graduate experience in marine biology, marine natural products, computational biology or a related field.

- Experience generating and analyzing next generation sequencing data for metagenomic samples
- Strong mathematical and computational skills and experience with standard bioinformatic and statistic software packages
- Knowledge of commonly used languages for biological data analysis (e.g. Perl, Python, R)
- Familiarity with the Linux environment and basic knowledge in command line software and shell scripting
- Knowledge of heterologous expression systems and tools to manipulate secondary metabolite gene clusters is desirable
- History of success as a driving force in research projects with a track record of successfully awarded grants
- Strong publication record and a capacity to conduct innovative, high-quality research
- Excellent communication and teamwork skills
- Demonstrated record of leadership, integrity and flexibility
- Enthusiasm and commitment to GMGI's mission for science and education

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 Science Director

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 Andrea Bodnar, andrea.bodnar@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 genomics and other “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.