Three Post-doctoral Positions available at the Rutgers Haskin Shellfish Research Laboratory

The Haskin Shellfish Research Laboratory (HSRL) is a New Jersey Agricultural Experiment Station (NJAES) and a field station for the Department of Marine and Coastal Sciences (DMCS), both located at the School of Environmental and Biological Science of Rutgers University. This dual role permits HSRL to draw upon the strengths of both programs to fulfill its mission in support of fisheries and aquaculture research. The station has a 120-year tradition of disseminating research results and working cooperatively with state and federal agencies and the fisheries and aquaculture communities in New Jersey. HSRL generates and disseminates research information directly applicable to all aspects of fisheries and aquaculture science, concentrating on species of commercial importance to New Jersey.

All positions are based at HSRL in Port Norris, NJ and will be filled as soon as a suitable candidate it identified. Salaries are commensurate with experience. The ability to work remotely varies across the positions and must be negotiated. Descriptions of each position along with links to postings at Rutgers where applications must be submitted and any special instructions are provided below.

Postdoctoral Research Associate in Shellfish Genetics

Quick Link to Posting https://jobs.rutgers.edu/postings/146353

A post-doctoral Associate position is available immediately. The position is part of a consortium project funded by NOAA through the Atlantic States Marine Fisheries Commission. The goal of the project is to develop tools and resources for genome-based breeding of the eastern oyster, a major aquaculture species of the US. The consortium project involves 11 institutions working together on advancing oyster research and breeding. The project has developed high-density simple-nucleotide polymorphism (SNP) arrays for efficient genotyping. The next phase of research will focus on the application of the genotyping platform in genome-wide association studies (GWAS) and genomic selection. The position is expected to participate in developing, testing, and implementing genomic selection for improving growth, disease resistance and field survival of the eastern oyster. Specific tasks may include production and maintenance of experimental animals, conducting challenge experiments, sampling and SNP array genotyping, analysis of genotype and phenotype data, development of prediction models for genomic selection, communication with consortium members and the oyster community, and writing manuscripts for publication. The successful candidate should have a Ph.D. in biological sciences with training in genetics and genomics. Experience with genetic analysis of large SNP datasets, GWAS and/or genomic selection is preferrable.

The position is based at the Haskin Shellfish Research Lab (located in Port Norris, NJ) at Rutgers University, in Professor Ximing Guo's lab. Funding is in place for one year, with possible extension for two additional years.

Minimum Education and Experience: The successful candidate should have a Ph.D. in biological sciences with training in genetics and genomics.

Required Knowledge, Skills, and Abilities: Experience with genetic analysis of large SNP datasets, GWAS and/or genomic selection is preferred.

Postdoctoral Research Position in Shellfish Pathology Biosecurity

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Postdoctoral Research Position in Shellfish Aquaculture and Multiple Stressors

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