

Diagnostic laboratory technical skill development and research

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Project Location:

Roger Williams University

Project Description:

The Aquatic Diagnostic Laboratory routinely conducts diagnostic disease testing on submitted specimens including shellfish and some fish. This student will participate in necropsies, PCR and qPCR disease determination (using methods already developed and helping to develop new qPCR methods) as well as preparing tissues for histological examination and conducting ISH staining. We are currently studying 3 diseases in bivalves including: *Bonamia exitosa*, a protozoan infections of oysters (*in situ* staining methods); protozoan infections of sea scallops (*in situ* staining and qPCR development) and hemocytic tumors in hard clams (laboratory transmission studies will occur this summer).

*This project involves **primarily lab or computer work***

Required/preferred skills for student applicant:

This student needs to have a very good background in genetics and hopefully microbiology or virology. The student should be detail oriented and willing to work with others in the laboratory.

Student transportation needed for project?

No