

Summer Research Project Overview

The Barnegat Bay Student Grant Program is accepting applications from undergraduate students to work on a team storm water research project that will involve collecting water samples, analyzing samples, and completing a project report.

Interested students must be willing to work during rainfall events, both day and evening and have flexible hours. This project is in conjunction with the Barnegat Bay Student Grant Program, NJ Department of Environmental Protection and the Rutgers Cooperative Extension of Ocean County. Sampling locations may be along the Barnegat Bay (i.e., Long Swamp Creek, Windward Beach, etc...). Coliform bacterial analysis will be used along with basic fluorometry and testing other abiotic water quality parameters (salinity, water temperature, pH and turbidity). This is considered a “Tier B” NJDEP water monitoring project.

The following are more project specifics:

- Students must have their own means of transportation
- Students must be able to work on a team
- Students will be working during storm events (prior to, and during events)
- Students will be trained on biological testing using bacterial testing
- Students will test for optical brighteners using a hand-held fluorometer
- Students will use flurometry to test for turbidity
- Students will use a hand-held meter to test for salinity and temperature
- Students will have to complete a mid-term presentation
- Students will have to write a final report on their findings to be submitted to the Grant Committee, DEP Bureau of Marine Water Monitoring and the Rutgers Cooperative Extension
- Students will complete the team project application with all of the requirements and a team monitoring plan that reflect quality control and assurance
- Students will maintain a journal to be submitted with the final report
- Students successfully meeting all of the project components may be entitled to a \$1000.00 stipend upon project completion and review.

If there are any other questions about the project, please contact Dr. John Wnek at matesnj@aol.com