## GENERAL INFORMATION

**Program sponsor:** Princeton Environmental Institute  
**Position number:** B1TWI  
**Project title:** Deer Exclosure and Forest Restoration Study  
**Organization/research group:** The Watershed Institute – Department of Science and Stewardship  
**Primary location(s) of internship:** Pennington, NJ  
**Additional cities and/or countries to be visited (if applicable):** n/a

**Note:** If this internship is located in a country with an [International SOS](https://www.internationalsos.com) risk rating of High or Extreme, final candidates must participate in a travel review process overseen by the Travel Oversight Group (TOG), and obtain safety guidance prior to departure. The University reserves the right to revoke support and funding for travel at any time there has been a significant deterioration in the safety and security conditions surrounding travel arrangements, or in the sector of the country, or countries, where travel is to occur.

## FACULTY SPONSOR(s)/HOST INFORMATION

**Name(s):** Steven Tuorto, PhD – Director of Science and Stewardship  
**University Department(s):** The Watershed Institute – Department of Science and Stewardship  
**E-mail:** stuorto@thewatershed.org  
**Phone:** 609-737-3735  
**Website:** thewatershed.org

## INTERNSHIP/RESEARCH PROJECT INFORMATION

**Internship/project description:**

The Stony Brook-Millstone Watershed Association resides on nearly 1000 acres of preserved land. A large part of the Watershed reserve stewardship land management plan, is to restore habitat in sections that have degraded due to over-browsing by an overpopulation of deer. Test efforts are underway for deer exclosure/restoration plots, with the fencing of one exclosure complete, and a comparison site planned. The restoration efforts within the plot will be monitored for their efficacy so that they can be employed accordingly in a widespread manner on the reserve.

**Student's role and responsibilities:**

Erect additional / maintain existing deer exclosure fencing; Survey deer exclosure areas for flora and fauna; conduct soil sample analyses; employ restoration efforts that adversely affect invasive deer-resistant species (physical removal, shading, etc.) and enhance native species re-population (transplantation, protection, seeding etc.), and monitor changes with respect to exclosure plot treatments; analyze and report results, and help to plan a strategy for further implementation.
### Internship/project learning objectives:
The student should gain a general knowledge of watershed science and health. They will gain the skills of monitoring flora and fauna health with respect to browsing and invasive species, and how to use the associated field and lab equipment. They will become experienced in communicating their knowledge to a broad constituency that the Watershed Institute interacts with including: residents at farmers markets and tabling events; high school age watershed summer academy students; adult learners in the watershed summer teachers’ academy.

### PROGRAM REQUIREMENTS

#### Academic background and any course pre-requisites:
Introductory biology or environmental science or equivalent

#### Technical skills:
None; willingness to learn forest health and identification skills and ability perform manual labor associated with the description of the "Students Role and Responsibilities" section.

#### Additional training(s):
N/a

#### Equipment:
N/a

#### Physical demands:
The demands associated with the student's responsibilities include all those associated with the description of the role and responsibilities; Majority of time will be spent outside in nature and student must be willing and prepared to deal with all variations of the summer climate and forest/reserve environment.

#### Language abilities/competencies (if applicable):
N/a

#### Additional information about the internship/project:
The Intern may be called upon to assist with other science projects at the organization or public education programs such as assisting with the annual Watershed Butterfly Festival.

### INTERNATIONAL TRAVEL REQUIREMENTS (if applicable)

#### Visa(s) required?
- Yes ☐
- No ☐

#### Research permit/pass required?
- Yes ☐
- No ☐

#### Immunizations required?
- Yes ☐
- No ☐

### INTERNSHIP/PROJECT SUPERVISOR(S)

#### Name and title of primary supervisor:
Steve Tuorto

#### Email: stuorto@thewatershed.org  
**Phone:**

#### Name and title of additional supervisor, if applicable:
N/a

#### E-mail:  
**Phone:**

### PROGRAM DATES AND FUNDING INFORMATION

#### Weekly Stipend:
$500

#### Number of Positions Available:
1

#### Tentative Start Date (mm/dd/yyyy):
05/27/2019

#### Number of Weeks:
12 (flexible)

#### Tentative End Date (mm/dd/yyyy):
08/16/2019

**Note:** PEI funding is for full-time work, 35 hours per week minimum, and for a period of at least 8 continuous weeks.

**Application deadline:** January 11, 2019