**GENERAL INFORMATION**

Program sponsor: Princeton Environmental Institute

Position number: H1RUB

Project title: Farm Project Field Assistant

Organization/research group: Rubenstein Lab

Primary location(s) of internship: Princeton University; farms within a 30 minute radius of campus

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 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): Dan Rubenstein

University Department(s): Ecology and Evolutionary Biology

E-mail: dir@princeton.edu

Phone:

Website:

**INTERNSHIP/RESEARCH PROJECT INFORMATION**

Internship/project description:

The United Nations estimates that food production must double by 2050 to meet the demand of the world’s growing population. How to do so in the face of new threats such as water shortages, pesticide resistance, and climate change is one of the most pressing challenges facing society today. The Farm Project involves monitoring and collecting field data at several local farms to understand how different farming styles (conventional, organic, no-till) and environmental factors impact crop productivity, biodiversity, and farm income. It will also seek to understand how different soil management approaches on grazing pasture compare relative to grass grow back rate, soil health, and livestock productivity. Data collected will support the course ENV 303: Agriculture, Human Diets and the Environment; and can be used for a junior paper or senior thesis topic.

Student's role and responsibilities:

Interns will assist the project specialist on weekly farm visits to monitor crops, gather field data and track farmer inputs (methods to control pests/weeds and maintain soil health) with outputs (yield and sales). For example, they will help deploy sensing equipment to measure plant growth, environmental conditions, and plants’ nutrient uptake; measure crop size and weight over the growing season; and identify beneficial/pest insect species. Lastly, the interns will assist in creating a database with the field measurements to support the related coursework and independent work.
**Internship/project learning objectives:**
Interns will gain first-hand knowledge of where their food comes from and will learn the real-world challenges facing today’s farmers and how they are adjusting to changes in markets, consumer demand, and the climate. In doing so, students will gain key skills in fieldwork and data analysis.

**PROGRAM REQUIREMENTS**

**Academic background and any course pre-requisites:**
None prerequisite; interest in environmental science or the equivalent and/or food and agricultural and livestock systems

**Technical skills:**
None prerequisite; willingness to learn and apply field-based data collection methods

**Additional training(s):**
n/a

**Equipment:**
All tools and equipment necessary for the internship will be provided

**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 on local farms and student must be willing and prepared to deal with all variations of the summer climate and agricultural environments.

**Language abilities/competencies (if applicable):**
n/a

**Additional information about the internship/project:**
The supervisor will transport students to and from the Princeton campus and the local farms. Selected students will be required to complete IACUC, IRB, lab safety and workplace safety requirements and trainings prior to the start of the internship.

**INTERNATIONAL TRAVEL REQUIREMENTS (if applicable)**

<table>
<thead>
<tr>
<th>Visa(s) required?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research permit/pass required?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Immunizations required?</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**INTERNSHIP/PROJECT SUPERVISOR(S)**

**Name and title of primary supervisor:** Gina Talt; Food Systems Project Specialist

**Email:** gtalt@princeton.edu  
**Phone:** 609-258-1671

**Name and title of additional supervisor:** n/a

**E-mail:** Phone:

**PROGRAM DATES AND FUNDING INFORMATION**

<table>
<thead>
<tr>
<th>Weekly Stipend:</th>
<th>$500</th>
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<tbody>
<tr>
<td>Number of Positions Available:</td>
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<tr>
<td>Tentative Start Date (mm/dd/yyyy):</td>
<td>06/03/2018</td>
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<tr>
<td>Number of Weeks:</td>
<td>12 (flexible)</td>
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<tr>
<td>Tentative End Date (mm/dd/yyyy):</td>
<td>08/23/2018</td>
</tr>
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</table>

*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