**GENERAL INFORMATION**

<table>
<thead>
<tr>
<th>Program sponsor:</th>
<th>Princeton Environmental Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position number:</td>
<td>C1STO</td>
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<tr>
<td>Project title:</td>
<td>Microfluidics for Soil Carbon</td>
</tr>
<tr>
<td>Organization/research group:</td>
<td>Howard Stone's Complex Fluids Group</td>
</tr>
<tr>
<td>Primary location(s) of internship:</td>
<td>Princeton University, SEAS</td>
</tr>
<tr>
<td>Additional cities and/or countries to be visited (if applicable):</td>
<td>n/a</td>
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*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**

<table>
<thead>
<tr>
<th>Name(s):</th>
<th>Howard Stone</th>
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</thead>
<tbody>
<tr>
<td>University Department(s):</td>
<td>MAE</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:hastone@princeton.edu">hastone@princeton.edu</a></td>
</tr>
<tr>
<td>Phone:</td>
<td>8-9493</td>
</tr>
<tr>
<td>Website:</td>
<td><a href="https://stonelab.princeton.edu/">https://stonelab.princeton.edu/</a></td>
</tr>
</tbody>
</table>

**INTERNSHIP/RESEARCH PROJECT INFORMATION**

**Internship/project description:**

An on-going project is developing a lab-scale experimental approach for investigating questions inspired by soil carbon. The project involves microfluidic experiments, imaging, some chemistry and interest in environmentally motivated questions.

**Student's role and responsibilities:**

The student will help in experiments, measurements, and data analysis using microfluidics, microscopy and various measurement methods. The student will engage with graduate students, postdocs and Professor Stone as part of their work on this project.
Internship/project learning objectives:
Student will gain experience with microscopy, data analysis, some fluid mechanics and physical chemistry. The student should have interest in environmental questions.

PROGRAM REQUIREMENTS

Academic background and any course pre-requisites:
None required.

Technical skills:
None required.

Additional training(s):
None required.

Equipment:
None.

Physical demands:
None.

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

Additional information about the internship/project:
Participating students will need to complete lab safety training, and workplace safety training prior to the start of the internship.

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: Howard Stone
Email: hastone@princeton.edu  Phone: 8-9493

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: 1-2
Tentative Start Date (mm/dd/yyyy): 06/04/2019  Number of Weeks: 8-10
Tentative End Date (mm/dd/yyyy): 08/05/2019  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