









COLUMBIA UNIVERSITY | EARTH INSTITUTE NEW YORK HARBOR FOUNDATION

## Billion Oyster Project STEM Collaboratory NYC® – A Teacher Fellowship at Pace University

#### **FELLOWSHIP CONTRACT**

The Billion Oyster Project Fellowship is a two-year professional development program that trains teachers and educators to engage their students in hands-on environmental science and restoration ecology in and around New York Harbor. This is a unique opportunity for teachers to work together with leading marine scientists and STEM professionals to transfer scientific knowledge directly to students historically underrepresented in STEM fields. BOP is a content-rich, place-based, experiential curriculum around the project of keystone species restoration. The project and the curriculum engages our city's young people in the study and practice of ecological restoration and environmental stewardship. Through monthly colloquium style workshops with scientists, hands-on trainings, and annual symposia, scientists share content knowledge with teachers and teachers share pedagogy and curriculum expertise with scientists. BOP teacher-fellows are provided technical, material, and financial support with which to implement BOP curriculum in their classrooms and in the field. To support participation in all five pillars of the project, teachers are given an annual stipend of up to \$3,000 and schools receive up to \$2,000 per year for related expenses including additional monitoring supplies, books, transportation, substitute coverage, or advanced underwater equipment such as the OpenROV.

Below is an outline of the responsibilities for Teachers/Educators, School/Program Administrators, and BOP staff. Carefully read the text below then sign the contract on the last page.

### Provided by BOP, Pace, and New York Harbor Foundation:

- Up to \$3,000 annual stipend for each participating teacher/educator
- \$2,000 annual subsidy for each participating school/program
- One graduate credit in science education from Pace University for each participating teacher/educator
- Support and one-on-one consultation from BOP curriculum specialist
- In-school visits from BOP coordinator for recruitment and outreach
- Waterfront Site; permits, access, and coordination with property owner
- Restoration Station, including: live oysters, supplies and hardware, water quality test kits, BOP field science manual (student and teacher versions), additional supplies and equipment as needed
- Full access to digital platform, including curriculum, ORS data, events, and research
- Certificate of Participation and Promotional Posters for school and classrooms
- Access to project evaluation and research results

### Responsibility of Teachers:

• Complete all required activities (underlined):

Activities	Year One Fellows	Year Two Fellows	
Scientist Workshops: 5:30-7:30, One Tuesday per month @ Pace	Attend all nine workshops (5-Spring, 4-Fall)	Optional	
BOP Curriculum PDs: 5:30-7:30, One Tuesday per month @ Pace	Attend three or more PDs including 2 Symposium Preps	Attend three or more PDs	
Spring and Fall Field Training Days 9:00am-4:00pm, Saturdays, @ Governors Island	Attend three field training days	Optional	
Annual BOP Symposium: June 23, 2017 10:00am-3:00pm	<u>Fellows must attend</u> , students are optional	Fellows attend with 10 or more students to present research projects	
Oyster Restoration Station (ORS) Monitoring Trips	Two in the Fall	Two in the Fall, two in the Spring	
Pace STEM Collaboratory Showcase	Optional	<u>Attend</u>	
Aquarium and Reef Exhibit Field Trips	Optional	Optional	
Video Synopsis and Personal Reflection	N/A	Submit Video and Written Reflection by January 15th	

- Teach students BOP field science protocols
- Take four ORS monitoring trips per year with select groups of students
- Enable students to sign up and operate BOP digital platform as "team members"
- Implement BOP curriculum in your classroom and in the field
- Provide feedback on BOP curriculum using the digital platform
- Engage other teachers and school community in BOP
- Take one field trip per year to The River Project or other partner institutions (optional)
- Establish links between BOP classroom and afterschool programming in the same building (when possible)
- Participate in all teacher evaluation and research activities including classroom and field observations, pre/post knowledge assessments, and surveys
- Help facilitate student evaluation and research activities including identifying participant and control student groups and ensuring that all students have signed consent forms
- Project Ambassador actively engage in project related events to promote the work

## **Responsibility of School/Program Administration:**

- Provide logistical and administrative support to participating teachers;
  - O Arrange for substitute coverage and chaperones for field class
  - o Help arrange for transportation to waterfront field sites
  - O Communicate with parents of participating students and help obtain permission for field class as needed
- Work with New York Harbor Foundation to receive and account for school-based subsidy
  - O Provide an itemized list of all project related expenses up to and over the amount of the subsidy to help NYHF understand the total costs of participation
- Provide project evaluation/research team with access to classrooms and other learning environments for observations, evaluations, and research activities
- Provide project evaluation/research team with access to student and school level data (e.g. grades, test scores, attendance) as approved by NYC DoE Institutional Review Board

# Signatures

I certify that I have read and agree to all of the conditions stated above. I confirm that I am aware of
the expectations that are held for BOP Schools and participating teachers in the BOP STEM
Collaboratory Fellowship and commit to fulfilling those responsibilities.

Applicant's Name (print)	Signature	Date
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Principal/Program Administrator Name (print) Signature		Date