

# Teacher Summer Institute June 2017

PLACE-BASED EDUCATION | WATERSHED SCIENCE | COASTAL ECOLOGY



*Immerse yourself in a week of experiential learning around local habitats in the coastal watershed of Salem Sound.*

## ***How are watersheds and the ocean inextricably connected?***

We will explore a watershed beginning with a rocky hill, into local rivers, mucking through wetlands, and ending up on the ocean waters of Salem Sound. While in each habitat, we will use science and engineering practices to gain a deeper understanding of our local ecosystems and how they are connected. You will learn how to use the outdoors as a means of delivering your teaching goals and providing an opportunity for students to connect to their local places through science.

## ***How can we connect students to authentic science that affects our communities?***

We will share the natural history of local places that are rich with human impact. We will give you resources to use in the classroom that connect science topics to our local places and prepare your students for outdoor experiences. We'll guide you in the development of an outdoor experiential lesson plan. Guided by your curriculum standards, this lesson will be grounded in your local watershed and incorporate science and engineering practices.

## CORE IDEAS

**Ecosystems: Interactions, Energy, and Dynamics** - sea level rise, invasive species, water quality

**Earth's Systems** - climate change, topography, water, erosion

**Earth and Human Activity** - marine debris, stormwater, invasive species, coastal resiliency

**Engineering** - underwater robotics, designing solutions to coastal problems

## BEST PRACTICES

**Science and Engineering Practices**

**Project-Based & Experiential Learning**

**Connecting to Local Resources**

**Audience:** Grade 3 - 8 Formal and Informal Educators

**Course Details:** June 26 - 30, 2017 (8:30 am – 3:00 pm)

12 Federal Street, Salem, MA (minutes from the Salem MBTA Station)

**Registration:** Space limited. Register now (free this year thanks to a NOAA B-WET grant!)

**PDPs and Graduate Credit:** 30 PDPs earned for participation in the Institute. 3 graduate credits (\$275) available through Salem State University for additional course work and a call-back day in November.

**Register Here** and For More Information:

[info@salemsound.org](mailto:info@salemsound.org) 978-741-7900

