2021 Summer Professional Development Institutes

Connect with scientists, engineers, and STEM professionals this summer during an inquiry-based, hands-on, minds-on professional development course designed to increase your science content knowledge!

All courses include 5 virtual sessions and 15 hours of online work.

**Seasons and Cycles: How Weather Affects Us and How We Affect the Weather**
*For Grades 3-8 Educators*

**Dates:** Virtual Sessions June 21st – 25th (8:30 AM – 1:30 PM EST).
**Partners:** Blue Hill Observatory & Science Center; The Ecotarium; GLOBE Mission Earth (Boston University)

- Gain hands-on experience with weather watching instruments and explore how professional weather observers use them.
- Gather weather data and learn how scientists use weather to understand climate.
- Interpret long-term data sets to reveal patterns in seasonal weather.
- Participate in citizen science opportunities.
- Create models to explore seasonal phenomena.
- Engage in inquiry-based, hands-on investigations of weather-related phenomena.

**How Does Your Dinner Grow? Exploring Connections Between Food Production and Sustainability**
*For Grades 6-12 Educators*

**Dates:** Virtual Sessions July 7th, 9th, 12th, 14th & 16th (8:30 AM – 1:30 PM EST).
**Partners:** Shelburne Farms; Massachusetts Farm to School

- Track where your food comes from and what it takes to get it to your plate.
- Create a prototype of a futuristic farming option.
- Design sustainable solutions to agricultural water use.
- Investigate the economics of small food-focused businesses.
- Explore the environmental impacts of farm and food waste.
- Engage in conversations about food justice and equitable access to healthy food.

**My Soda Bottle Ended Up Where? Exploring Plastics Problems and Solutions**
*For Grades 6-12 Educators*

**Dates:** Virtual Sessions July 19th – 23rd (8:30 AM – 1:30 PM EST).
**Partners:** Beyond Benign; Salem Sound Coastwatch; wTe Corporation

- Discover the origins of plastic waste and plastic debris in your neighborhood.
- Design prototypes to filter plastic waste out of our waterways and wastewater.
- Explore materials engineering from a green chemistry perspective.
- Engage with community-based solutions to plastic problems, including community action and policy changes.
- Go behind-the-scenes with industry experts to explore innovative solutions to the challenge of recycling plastics.
- Investigate the various impacts of plastic waste on human health and the environment.

**Landscapes on the Move: Investigating Geologic Formations and Processes**
*For Grades 3-8 Educators*

**Dates:** Virtual Sessions July 7th, 8th, 13th, 14th & 15th (8:30 AM – 1:30 PM EST).
**Partners:** Cape Cod Museum of Natural History; Lloyd Center for the Environment; Center for Coastal Studies Provincetown; Cape Cod Learning Tours

- Examine evidence of how glaciers formed our landscape.
- Explore how erosion affects the built and natural environments.
- Investigate how changes to the shoreline impact inland communities.
- Engage in virtual tours of locations around Cape Cod and Southern MA to uncover how the landscape was formed.
- Make connections between our geologic past, present, and future.
- Participate in inquiry-based, hands-on investigations that explore geological processes.

For more details and to register visit wadeinstitutema.org.
Join us for unique professional development courses that immerse you in inquiry-based investigations and increase your STEM content knowledge. Our courses will connect you with scientists, engineers and STEM professionals through live discussions and virtual site visits. Work with educators at our partner institutions to explore real-world phenomena through hands-on, minds-on investigations. Explore how to use these investigations with your students in the classroom and remotely. Earn PDPs and optional graduate credits. Receive a toolkit containing materials to enable you to engage in the investigative and other hands-on activities during the course. As an added bonus, you will be invited to participate in optional field sessions with our partners during the 2021/2022 academic year (free of charge).

Registration Information:

Cost:
$475/participant
$425/participant if attending as a team with 2 other teachers from your school or district.
$400/participant if attending with as a team with 3 or more other teachers from your school or district.

PDPs and Optional Graduate Credit:
40 PDPs are available without graduate credit.
3 graduate credits and 67.5 PDPs are available from Cambridge College for $225*.
3 graduate credits and 67.5 PDPs are available from Framingham State University for $225*.
*75/credit

All participants will be provided with a materials kit for the inquiry-based, hands-on investigations during the course.

Visit www.wadeinstitutema.org to learn more and register!

Partially funded by:
Cornelia Bailey Foundation
George Garretson Wade Charitable Trust
National Grid Foundation
Sanofi Genzyme
Vanderbilt Family Foundation

2021 Summer Professional Development Institutes
Remote professional development institutes for grades 3-8 and 6-12 educators

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$425/participant if attending as a team with 2 other teachers from your school or district.
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