



2022 Summer Professional Development Institutes

*STEM Professional Development
Institutes for Grades 3-12 Educators*



www.wadeinstitutema.org

Join the Wade Institute for our Summer Professional Development Institutes: unique, graduate level courses that engage teachers in hands-on, minds-on, inquiry-based investigations and increase STEM content knowledge! Connect with scientists, engineers, and STEM professionals. Work with educators at our partner institutions to explore real-world phenomena through hands-on, minds-on investigations, and identify how to implement these investigations with your students in the classroom. Earn PDPs and optional graduate credits as you experience inquiry-based learning firsthand. Receive curriculum materials for the inquiry-based, minds-on, hands-on investigations introduced during the course to take back to your classrooms. Increase your proficiency with and leverage the power of technology to support student learning in both the classroom and remote settings.

Registration Information (All Regions):

All Institutes will include a virtual orientation in June.

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

For more information and to register visit www.wadeinstitutema.org

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Wade Institute for Science Education

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Wade Institute for Science Education

2022 Summer Professional Development Institutes

Central Region



Nature and Design: Connections Between Science, Engineering, and the Natural World



For Grades 6-12 Educators

Dates: July 11th – 15th, 2022 (8:30 AM – 3:30 PM ET)

Collaborating Partners: New England Botanic Garden at Tower Hill; Mass Audubon's Broad Meadow Brook Conservation Center and Wildlife Sanctuary; Blackstone River Valley National Heritage Corridor

When designing and constructing our built environment it is imperative to consider the impact on the natural environment. During this Institute, you will examine how buildings and landscapes work together and how nature inspires us to create. Delve into the concepts of green design and biomimicry. Explore the features of a LEED certified building and design elements that support the preservation of nature, such as solar fields, rain gardens, and pollinator gardens. Use your new knowledge to design a public green space within an urban environment.

Pioneer Valley Region



Rivers to Range: Exploring the Geology of the Pioneer Valley



For Grades 3-8 Educators

Dates: July 18th – 22nd, 2022 (8:30 AM – 3:30 PM ET)

Collaborating Partners: Beneski Museum of Natural History; Hitchcock Center for the Environment; Springfield Science Museum; The Trustees of Reservations

Known for its basalt flows, mountain ranges, dinosaur footprints, and fertile soils, the Pioneer Valley exhibits a rich history of geologic change. You will explore opportunities for integrating science and math as you learn about the geologic history of the Pioneer Valley. You will visit local field sites, delve into museum collections, investigate the traces that animals can leave in sediment, learn how rivers can shape a landscape in geological time, participate in inquiry-based investigations and discover how your modern landscape can provide clues to a very different past.

Southeast Region



Utilizing Your Local Ecosystems as Laboratories for Investigations



For Grades 6-12 Educators

Dates: July 18th – 22nd, 2022 (8:30 AM – 3:30 PM ET)

Collaborating Partners: Lloyd Center for the Environment; New Bedford Whaling Museum; Round the Bend Farm

Learn how to integrate field research and data collection into your science curriculum. Experience multiple entry points for hands-on, place-based science and participate in collaborative projects with professional scientists. Explore wetland, estuary, marine, and forest habitats and participate in authentic data collection. Learn about sustainable agricultural practices and how to use the ecosystem for scientific investigation. Consider how this data can tell us stories about these living laboratories and the plants and animals that live there.

Berkshire Region



Investigating Watersheds: From the Mountains to the River Basin



For Grades 3-8 Educators

Dates: July 25th – 29th, 2022 (8:30 AM – 3:30 PM ET)

Collaborating Partners: Housatonic Valley Association; Massachusetts Department of Conservation and Recreation Mount Greylock Visitor Center; Berkshire Environmental Action Team; Hoosic River Watershed Association

What affects water quality in rivers that flow through your community? Investigate first-hand how important our watersheds are and what it takes to protect them as we visit mountain, forest, river, and stream habitats. Explore a variety of methods for investigating a watershed. Sample macroinvertebrates, learn water quality monitoring techniques, and explore how communities use green infrastructure to improve the health of a watershed. Put science and engineering design practices to work as you participate in citizen science projects that your students can engage with to protect watersheds in your area.

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