



ECOLOGY PROJECT  
INTERNATIONAL

# MONTANA SCIENCE TEACHING INSTITUTE

Summer is a great time to dive into free online Professional Development! Join Ecology Project International (EPI) as we explore standards-linked, phenomena-based science learning through our own **Montana Science Teaching Institute (MSTI)** designed specifically for Montana Science teachers.

MSTI is an engaging, free series of workshops that focuses on science topics relevant to the Greater Yellowstone Ecosystem. Teachers will have an opportunity to explore engaging interactive resources, and be provided with classroom-ready lessons to use with your students. EPI's lessons are intended to provoke curiosity and cultivate environmental literacy through science phenomena currently relevant to the GYE.

The MSTI program was designed with middle school and high school teachers in STEM-related fields in mind, but all teachers are welcome, as individual participants or in cohorts across grade levels, content areas or schools.

**EPI is actively recruiting for our Summer 2023 cohorts. Come join us and explore science topics, collaborate with other teachers, and participate in low-stress Professional Development this summer.**

Enroll at: <https://www.ecologyproject.org/msti>

The Montana Science Teaching Institute is supported by the Governor's Emergency Education Relief Grant (GEER) and participation is free for Montana teachers.



JOIN MSTI AND  
FULFILL  
SUMMER PD  
REQUIREMENTS

## MODULE CONTENT & FOCUS

### Module 1

**Patterns & Predictions for a Hotter Planet Part 1 –** Temperature Change (Featuring HHMI BioInteractive's *EarthViewer*)

### Module 2

**Patterns & Predictions for a Hotter Planet Part 2 -** Atmospheric Carbon Change (Featuring HHMI BioInteractive's *EarthViewer*)

### Module 3

**Populations and Pressures in Yellowstone –** Analyzing and interpreting data explaining human impacts on populations in Yellowstone.

### Module 4

**Changing Conditions and Trophic Cascades –** Modeling impacts of change in Yellowstone food webs.



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The **Montana Science Teaching Institute** is designed to support Montana teachers as they strive to deliver engaging content in dynamic conditions. Professional development opportunities will include online synchronous workshops filled with opportunities to explore new, classroom-ready resources that provoke inquiry, build knowledge, and strengthen data and computational analysis skills. Workshops include time for teacher collaboration and discussion, and all resources provided are free and ready for your classroom. Teachers will come away with new tools and approaches for exploring the science behind anthropogenic impacts on the environment and changes in climate.

EPI curriculum highlights natural phenomena and student inquiry driven methods, and uses technology to enhance opportunities for students to interact with the natural world. Teachers in the **Montana Science Teaching Institute** will use novel technology tools to dive into the science of global temperature and atmospheric changes, and model how human influences can impact ecosystems in Montana. Classroom-ready materials that reinforce student application of data analysis, building and using knowledge, and computational analysis will be provided and modeled during each session.

Cohorts of enrolled teachers will have the opportunity to engage with four 90-minute modules in the series. Teachers from across the state have participated in the MSTI program, connecting teachers across from across the state as they expand their teaching resources.

## OPI Montana Conference

**Prefer to do your PD in person? Join us at the 2023 OPI Summer Institute at MSU in Bozeman on June 22.**

**EPI will offer all four workshops in person in back-to-back sessions!**

Navigate to <https://opi.mt.gov/summer-institute> to register for the conference.

### Join one of three MSTI cohorts this summer:

- June 26 – 29 @ 10:00 - 11:30 am MT
- July 24 – 27 @ 5:00 pm - 6:30 pm MT
- August 8 – 11 @ 12:00 pm - 1:30 pm MT

Enroll online at: <https://www.ecologyproject.org/msti>



Upon completion of the program's four modules, participants will receive a certificate of continuing education, authorized through the Office of Public Instruction for 6 credit hours. An additional 6 credit hours are available for participants who complete a series of online assignments