



NJSTA Maitland P. Simmons Memorial Award 2024 Summer Institute OpenSciEd High School

Curriculum Launch

[OpenSciEd](#) (OSE) is a free and open curriculum resource that brings science to life with phenomenon-based storylines, hands-on science investigations and engineering design projects aligned to the Next Generation Science Standards (NGSS) and three-dimensional science teaching and learning that is described in The Framework for K-12 Science Education. The specifications integrate the three-dimensions of science and engineering practices, crosscutting concepts, and disciplinary core ideas. Based on research regarding how students learn, what motivates learning, and the implications for teaching, the instructional materials were developed and designed around students figuring out an engaging, relevant anchoring phenomenon. Teachers guide the process to deep science learning as they motivate students to ask pertinent questions, work together and learn from each other. Instructional routines are designed to advance a storyline which values every student's voice as they achieve objectives in learning science.

The New Jersey Department of Education (NJDOE) has collaborated with OpenSciEd to develop the instructional materials for the [NJDOE's High School Model Science Curriculum](#) in biology, chemistry, and physics. This summer, the NJSTA Maitland P. Simmons Memorial Award (MPSMA) Committee is excited to sponsor this professional development opportunity for high school science educators. Through these sessions, Scholars will gain an understanding of OpenSciEd high school curriculum and how to implement it in either the Biology, Chemistry, or Physics classroom. Scholars will have an opportunity to collaborate with other NJ educators in all three subject areas to deepen their understanding of best practices and equitable strategies in science instruction, experience an OpenSciEd unit from the student perspective, reflect as a teacher, and become an expert in navigating the OSE resources to maximize student impact.

This immersive professional learning experience will deepen teacher knowledge in the OpenSciEd instructional model selecting your choice of one of three subject-specific units:

Biology Unit B.1 Ecosystems: Interactions, Energy, Dynamics
Chemistry Unit C.1 Thermodynamics in Earth's Systems
Physics Unit P.1 Energy Flow from Earth's Systems



For more information about the OpenSciEd instructional model and resources, please click on the logo to the left.

Audience: Teachers and Leaders of High School Science (Grades 9-12)

Dates/Times: This **five-day** Institute will take place **June 24–28, 2024**.

Scholars who are accepted must commit to attend each full day of the program.

Workshop Model: Hybrid

Location and Dates:

LIVE Day 1 Monday, June 24 from 8:00 a.m. – 3:30 p.m. in the NJ Center for Science, Technology and Mathematics at Kean University, Union, NJ. Light breakfast and lunch will be served.

Virtual Days 2-5 Tuesday, June 25, through Friday, June 28 from 9 a.m. – 1 p.m.

NJ OpenSciEd Facilitators: Dr. Mariel Kolker (Physics), Dr. May Jean Cheah (Chemistry), and Dr. Marisa Castronova (Biology)

Sponsor: The Institute is supported by the NJSTA Maitland P. Simmons Memorial Award (MPSMA) Endowment. It covers all Institute costs for those who attend the full 5-day Institute. Participants, known as MPSMA Scholars, will also receive upon completion of the 5-day Institute:

1. One-day admission to the October 2024 New Jersey Science Convention
2. Certificate for 23 Professional Development hours.
3. Follow up support for NJSTA members throughout the year at the virtual NJSTA OpenSciEd PLC. Join NJSTA for \$25 at <https://njsta.org/Join-us>.

Successful applicants will be notified by May 1, 2024. After May 1, any additional remaining spaces will be filled on a rolling basis and/or a waitlist will be used.

Online applications are available on the NJSTA website:

<https://njsta.org/2024-Simmons-Institute>