

Please join us for the...



Applied Learning STUDENT SHOWCASE

An end of year showcase for **Project Lead The Way, OpenSciEd, and PBLWorks** schools in MA for students (grades 5-12) to share their applied learning projects with industry professionals

Friday, May 19, 2023 | 8:45 to 12:30

The Reggie Lewis Center
1350 Tremont St • Boston, MA • 02120

Event overview and registration details for educators

- Register your school by April 12; team information due May 5
- Each *program* may bring up to 3 teams (12 students)
 - PLTW Launch -- 5th grade only
 - In schools with multiple programs (e.g., OSE & PLTW or Eng & BioMed) each program may bring 3 teams
 - PLTW HS programs can bring unlimited number of capstone(EDD & BI) teams

mass-stemhub.org/ALShowcase to register and learn more

See reverse for Educator FAQ - projects, registration, etc.

Educator FAQ

We are so excited to see your student work and are here to help. Please do not hesitate to get in touch with the Mass STEM Hub team at the One8 Foundation: Email Heather (hhaines@mass-stemhub.org)

When and where is the showcase? The showcase is Friday, May 19, 2023 from 8:45am to 12:30pm at The Reggie Lewis Center. The showcase portion of the event will begin with opening remarks at 9:30am. School registration will open at 8:45am and schools are encouraged to arrive no later than 9:15am in order to have time to find their tables and set up their projects.

I am new, what exactly does a “showcase” entail? One8’s Applied Learning Student Showcase is an opportunity for students to present their project work to an authentic audience. Student teams will each have a table to present their project and 300+ industry professionals will circulate and talk with student groups, offering them verbal and written feedback. In addition to the showcase portion of the event, we will also have a few speakers and an awards ceremony.

Are there SPECIFIC projects we should be bringing? Especially if I am an OSE or PLTW teacher? Yes there are specific projects to bring. Our judges will be able to provide higher quality feedback and better engage with student teams if we are able to prepare them for specific projects. See recommended and possible projects at: mass-stemhub.org/ALshowcase

- **PLTW:** recommended project list can be viewed at the website above and at a high level it is mostly the major projects of courses (e.g., DM Therapeutic Toy, IED Reverse Engineering, PBS Preventative Medicine Design, CSE Creative Expressions).
- **OSE:** class consensus model and unit-specific engineering solutions for any of the first four units in 6th, 7th, or 8th grade
- **PBLWorks:** Projects that have strong evidence of Gold Standard Design Elements from all disciplines are welcomed!

What work product should my students share? Students are invited to share a project from their PLTW, OpenSciEd, and/or PBLWorks courses. Projects should be complete and solutions developed in teams (i.e. no individual projects). In order to best prepare our industry volunteers, we will prep them with the most common PLTW & OSE projects and will be briefed on the PLTW/OSE rubrics and common tools. More concretely, this means judges will be expecting to see:

- **PLTW:** problem statement, constraints, sketches, decision matrix, testing data, modifications, physical prototype
- **OSE:** initial and ending consensus models, investigation design and data, and end-of-unit engineering solutions (e.g., thermal cups, human body system models, protective cases, light box models, re-designed speakers)
- **PBLWorks:** Evidence of student reflections, documentation of student feedback and revision, final product/presentation, project rubrics, pictures/videos from other avenues where students presented their public product (if it was presented before)

Most often schools find it easiest to display the various project elements on a tri-fold presentation board. Students have also used multimedia presentations (on chromebooks, tablets, or computers) and have brought lab notebooks. Check out pictures from previous events on our website for ideas (mass-stemhub.org/ALShowcase). Students should be prepared to talk about their work, the consensus model creation process, and how they came to their final design.

Why unlimited capstone projects for high school PLTW programs? You read it correctly. High schools with the PLTW capstone courses (Engineering Design and Development (EDD), Biomedical Innovation (BI) or the new Common Capstone) are invited -- make that **encouraged** -- to bring as many capstone projects as they wish. The culminating project in the capstone courses is such a powerful learning experience for students that we want to provide an authentic audience for all of those students who choose to take on a capstone. In addition, the capstone projects in previous showcases have been terrific examples of student creativity, hard work, and collaboration. We are eager to show these projects off to our younger students in attendance.

My school/PLTW or OSE program gets to bring three teams, how do we select?

Great question. We know this can be tricky for schools. We want to include as many schools and programs and, with nearly 200,000 students utilizing these high quality programs across the state, we cannot invite everyone. One educator positions the showcase to her students as the “championships” and as a school they conduct an internal selection process and then all work to support the finalist teams that attend. Many schools use this approach and select teams in a variety of ways: in-school showcase, classroom review/peer feedback lesson, hallway display with community voting, educator/community selection panel.

My leadership team is all in, but we are struggling to figure out transportation, what should we do? We recognize that transportation is difficult. While we do not offer funding for transportation we have a few ideas and a regional transportation idea. First some ideas (from other educators): ask families to help (they are welcome to attend the showcase), use the commuter rail/MBTA (Roxbury Crossing and Ruggles are within walking distance), utilize passenger vans, and carpool with another district. Second, we are actively looking to establish regional charter buses from different locations across the state, pending school interest. If you are interested and willing to organize a group, please let us know.