

The Museum of Science and EiE are thrilled to support this year's MASS STEM Week theme, "See Yourself in STEM." We take great pride in our mission, "To inspire a lifelong love of science in everyone" and we believe that together we will create a generation of problem solvers for a better world. To allow educators and learners alike to see themselves in STEM as engineers, the Museum of Science and EiE have developed three engineering design challenges for educators and learners across the state.

Want to learn more? Join us online!

PreK-Grade 2: Tuesday, October 13

3:30-4:00pm ET

Grades 3-5: Wednesday, October 14

3:30-4:00pm ET

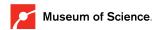
Grades 6-8: Thursday, October 15

3:30-4:00pm ET

Register to participate and get access to educator and learner resources.

Engage your learners virtually in an engineering design challenge created by the Museum of Science and EiE.

Grade Level	Engineering Design Challenges		
PreK-2	PreK through grade 2 learners, as engineers, will learn about the needs of an animal that is native to Massachusetts. What does it need to live? How do humans impact its habitat? What can be done to protect it? Can we use the Engineering Design Process to find a solution?		
G3-5	Learners, as engineers, in grades 3 through grade 5 will research various animals to identify and analyze what they need in order to survive within a local ecological network. As their investigation begins, students will be alerted about an increase of pollution in local waterways! How has this human impact affected our food web ecology? What can we do to help? Maybe we can use the Engineering Design Process!		
G6-8	Learners, as engineers, in grades 6-8 will identify and research the different water and wastewater systems in their own neighborhoods and investigate the human impact on their local environment. How does a wastewater system work? How do humans impact the quality of water? What can we do to help?		





Stay engaged with the Museum of Science and EiE team all week long!

Day	What?	How?		
Monday	Design Challenge Launch	Watch a video to learn more about the challenge.		
Tuesday Wednesday Thursday	STEM Board Interactions	Follow Museum of Science, Boston and EiE on social media, and share photo or video evidence from the STEM choice board below.		
	Flipgrid	Visit https://flipgrid.com/mosstem Teachers and students can post photo or video evidence from the STEM choice board below.		
	Office Hours	Educators can join these informative sessions for support, advice, or opportunities to share and learn from other participating educators.		
Friday	Submissions Collected	Share your photos and videos with Museum of Science, Boston and EiE through social media with hashtag #MASTEMEiE.		

Follow us and use the hashtag #MASTEMEIE









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Draw and share a plan or blueprint	Show us your materials	Learn about the Sustainable Development Goals and post your findings	Demonstrate how you used critical thinking to break down your challenge
Post your best design failure	Imagine multiple solutions and share at least two	Communicate with peers by creating and sharing a process	Ask and investigate by researching engineering schools in your state
Share how you are improving your design	Research female engineers and share what you learn	Post about the fields of engineering that interest you most	Capture evidence while you test your design
What does an engineer look like? Remember, we are ALL engineers!	Ask and investigate environmental engineers	Share how you are using math and science knowledge to design a solution	Ask and investigate famous engineers in your state