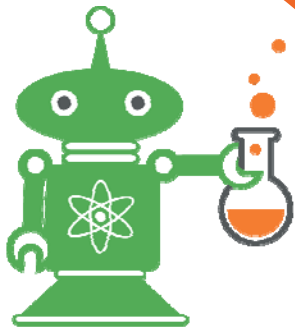


# Motivating Youth to Embrace Science!



**SCIENCE**  
FROM SCIENTISTS

SCIENCEFROMSCIENTISTS.ORG

The U.S. ranks  
behind 19 other  
countries in  
science literacy.





Over the past decade, STEM  
jobs have grown at a rate

**3 times**  
**faster**  
than non-STEM jobs

U.S. Department of Commerce's Economics and Statistics Administration (ESA) 2011 Report STEM:  
Good Jobs Now and for the Future Source: <http://www.esa.doc.gov/Reports/stem-good-jobs-now-and-future>

17%

Increase in  
STEM jobs from  
2008 to 2018

9.8%

Increase in non-STEM  
jobs from 2008 to 2018

# Where are the STEM Students?

National STEM Interest and Proficiency 8<sup>th</sup>-12<sup>th</sup> graders





15.2%

Not Proficient  
But Interested

17.3%


Proficient  
And Interested

42.1%

Not Proficient  
And Not Interested

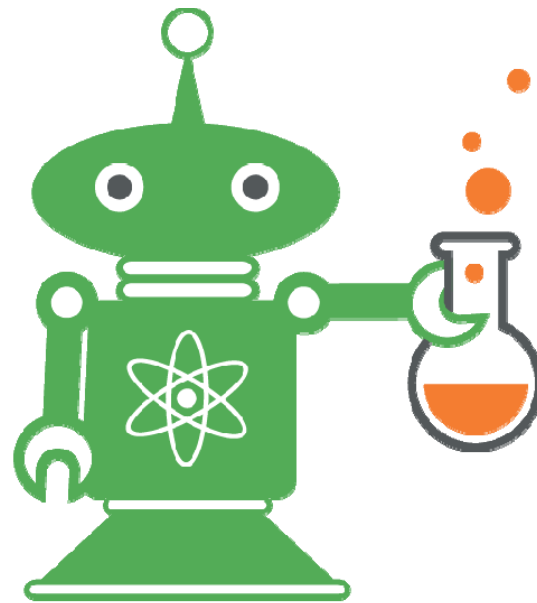
25.4%

Proficient  
But Not Interested



**82.7%** of students in high school are either  
**Not Proficient or Not Interested in STEM**

A unique and bold solution



**SCIENCE**  
**FROM SCIENTISTS**



A woman in a white lab coat and safety glasses is holding a red fire extinguisher on a stage. She is smiling and looking towards the right. In the background, another person is also holding a fire extinguisher, and a large audience is seated in the foreground. A large, stylized number '1' is overlaid on the image, partially covering the woman and the text.

# Attitude

Increase the number of students who WANT to pursue STEM degrees

Help students to LIKE STEM

Charismatic, role model scientists as instructors

Engaging material that is exciting to students



# Aptitude

Improve STEM competency of students so that they are globally competitive and do not fall behind

Improve MCAS scores over multiple years (+25%)

Pre/post test assessments show increased knowledge



# Mission

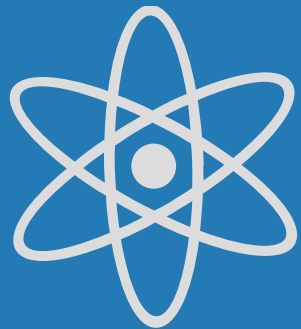
Improve the **attitudes** and **aptitudes** of 4-8 graders in STEM subjects thereby increasing the number of students pursuing STEM careers



During School

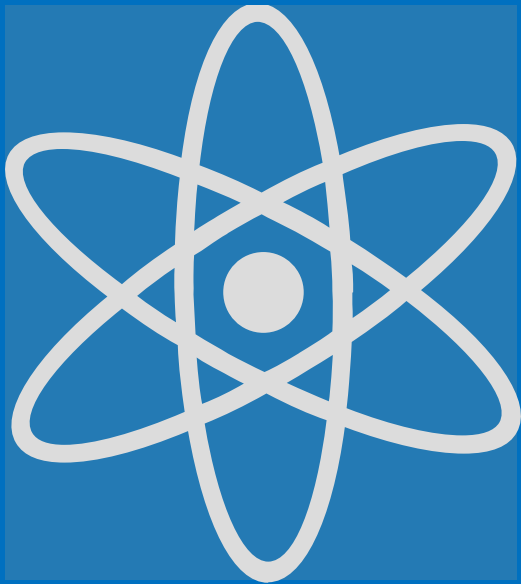


Measurable Impact



Massachusetts  
State Endorsed

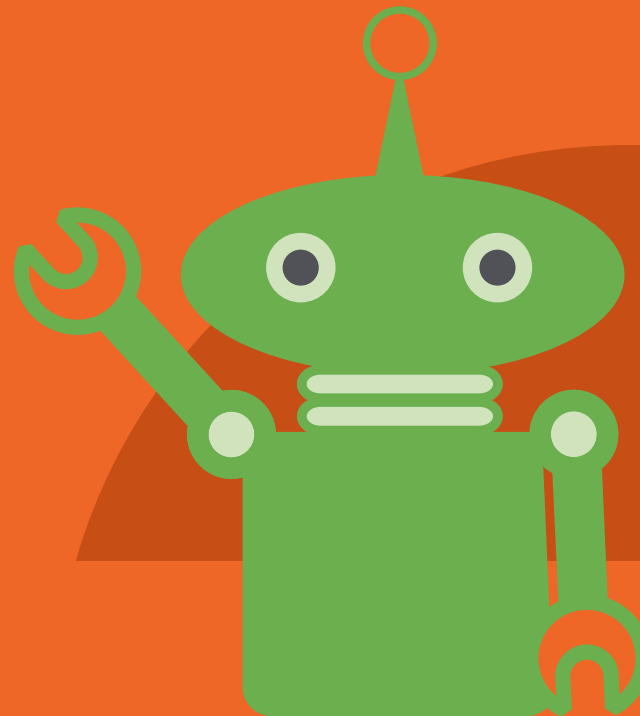
# Easton STEAM Education Team



- Teacher and administrators
- Town government
- Parents and graduates
- Town partners (Children's Museum, NRT, Ames Library, YMCA, Cultural Council)
- Regional and business partners (SE STEM Network, North Easton Machine, Johnson and Johnson, Stonehill)

# 2015-2016 Donors

- Stonehill
- FEEE
- Ameresco
- Woodard and Curran
- Whelan Associates



# EMS – Grade 6



- Teamwork & Cooperation
- Communication
- Problem Solving
- Inquiry
- Critical Thinking
- Perseverance



# *Teacher Survey Results - Fall 2015*

*How influential is the program at increasing your students' aptitudes and attitudes towards science?*

◆ *VERY influential for both*

*“While this program is wonderful for the students, it is even more so for the teachers”*

—Teacher, Easton MS



# Teacher and Student Feedback



ECAT – Keough's Corner:

<https://youtu.be/VcfSyM7LLAM>

