

# STEM INNOVATORS-IN-TRAINING TOUR



## STEM Innovators-in-Training Experience **PORTLAND**

**March 7th, 2016**

**9:00 AM - 1:30 PM**

**University of Portland (tentative venue)**

**5000 N Willamette Blvd.**

**Portland OR 97203**

Join Ten80's team of STEM professionals and regional leaders in a one-day version of the Innovators-in-Training Challenge. Students will attend workshops and working sessions that focus on one or more of the four critical aspects of innovation: the engineering process, enterprise process, content & skills and leadership.

The event is open to any high school or organization that serves high school students. Lunch is provided to all registered participants.

Innovation takes practice. Let's get started!

Register [Online](http://www.Ten80Education.com/?p=562) at [www.Ten80Education.com/?p=562](http://www.Ten80Education.com/?p=562).

## VIP Breakfast

Interested in learning more but not bringing students? Administrators, elementary and middle school educators, and informal educators are invited to an informal breakfast before the event begins. Doors are open from 8:30 AM - 9:30 AM when student registration is in full swing.

Download the full **VIP Breakfast flier** from the event page at [www.Ten80Education.com](http://www.Ten80Education.com)

RSVP [bsimmons@ten80foundation.org](mailto:bsimmons@ten80foundation.org) to ensure there is enough coffee!

## STEM Sponsorship

This Experience can serve as a kick-off to long-term learning. Attendees are eligible to activate sponsorship for initiatives that, depending on the chosen implementation, can include up to \$4,200 worth of non-consumable materials and curriculum for STEM Endorsement courses, Principles of Engineering courses, out-of-school clubs, summer camps or individual projects to enhance your existing courses.

Visit <http://www.ten80education.com/stem-tour> for more information on these programs that are certified Exemplary and Scalable by Change the Equation.

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# SPONSORSHIP OPPORTUNITIES

Participating high schools are invited to activate a course or club sponsorship which includes:

- Student STEM Challenge curriculum and non-consumable materials, worth up to \$4,200
- Entry into the 2016-17 National STEM League
- Innovators-in-Training Challenge (100% Student-Driven)

Details on each are given below.



The Student Racing Challenge can be implemented as a STEM Endorsement course, Intro to Engineering course, out-of-school club or individual modules to support your existing curriculum.

Throughout the course or club, students work in teams and essentially own their own business. They manage themselves, market their team and of course, engineer performance. The base technology is a 1:10 scale electric radio-controlled (RC) car that can be setup in over four million ways before re-engineering a single part.

Specialization pathways projects include automation (Robotic RaceCar), Aerodynamic Design using 3-D CAD, and Renewable Energy Charging.

OR



The CompSci and Rover Challenge curriculum can be implemented as a STEM Endorsement course, Intro to CompSci or out-of-school club.

Throughout the course or club, students work in teams and also own their own business. Like Racing teams, Rover teams manage themselves, market their team and of course, engineer performance. The nature of their business however is up to students because the technology at the center of this course can be applied to a wide variety of applications, several of which are described in the curriculum.



## HOW DO YOU DESCRIBE INNOVATION?

“If invention is a pebble tossed in the pond, innovation is the rippling effect that pebble causes. Someone has to toss the pebble. That’s the inventor. Someone has to recognize the ripple will eventually become a wave. That’s the entrepreneur.” — Tom Grasty, PBS Idea Lab

## HOW DO YOU ENGAGE IN THE PROCESS OF INNOVATION?



- Engineer a solution to a problem or opportunity people care about. Engineering occurs at the intersection of science, mathematics and technology
- Apply specific knowledge and skills to see ideas through.
- Plan your enterprise to ensure sustainability through project management, marketing, and business modeling
- Be a leader. Leadership is required to turns ideas into action



Organizations that offer Student STEM Challenge courses and/or clubs are invited to collaborate and compete as teams in the National STEM League.

Teams compete online in an annual points race and face-to-face at Open Invitationals across the country. Points leaders and invitational winners are invited to the NSL Finals.



All students who attend a STEM Expo are invited to enter a video of their project pitch into the Innovators-in-Training Challenge which is part of the National STEM League. The winner of phase 1, the Video Pitch, earns \$500 per team member.

Phase 1 is all about ideas and creativity. Students are invited to continue into Phases 2 - 4: Plan, Propose & Prototype.

## Register to Reserve Space & Sponsorship

Ten80Education.com/STEM-Tour for registration link  
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