

TEN80 STEM EXPO & INVITATIONAL

CSU Long Beach (CA) • Thursday, April 2nd, 2015



STEM Sponsorship

High school students and K-12 educators are invited to the Ten80 STEM Expo & Invitational SoCal. The one-day experience is valuable and can be part of short-term engagement through the Student Leadership Challenge or long-term engagement through a sponsored National STEM League (NSL) class or club.

Expo attendees are eligible to activate the full sponsorship and bring the NSL to their schools for sustained project-based learning that doesn't forget the learning! Depending on your implementation, sponsorship can include up to \$4,000 worth of non-consumable materials, STEM curriculum for clubs, camps or courses, training and entry into the 2015-16 NSL. Competition is optional. Collaboration and Creativity required!

Event Details & Registration

Register online at www.NationalSTEMLeague.com/forms/expoinvreg/

Expo Participants will engage in a one-day Student Leadership Challenge and join workshops featuring 3-D CAD and printing, race engineering, robotics and innovation.

Invitational teams compete in Race, Enterprise and Data-Driven Design categories.

- Thursday, April 2, 2015 from 9:15 AM - 1:30 PM
- Location: California State University - Long Beach campus
- Transportation: Bussing stipend available upon request
- Lunch provided



NationalSTEMLeague.com

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National STEM League

NSL Challenges

The path to STEM literacy and becoming a contributor to the Innovation process is different for every student. The National STEM League (NSL) Challenges offer an entry point for everyone, whether it is as a math modeler, R&D lead, racecar technician, graphic designer or team leader.



Ten80's curriculum models the Innovation Process, one that combines engineering and enterprise processes with content areas required to turn ideas into reality.

All projects and lessons are aligned to the Common Core and Next Generation Science Standards.

NSL Competition

The National STEM League (NSL) is a practice league for future professionals. Competition is Optional ... but highly recommended. There are two ways to collaborate and compete in the NSL.

Web-Based Points Race: No Travel Required! Students share work to get feedback from remote STEM mentors, earn points, share ideas with other teams and swap assets such as 3-D printer time or CAD files.

Open Invitationals & National Finals: Teams gather face-to-face in these events that are a combination of high-tech STEM fair and high-drama competition.

Student Racing Challenge Sponsorship

STEM Expo participants can activate a Student Racing Challenge sponsorship. As owners of a motorsports business and team, students become certified in problem solving, mechanical systems and math modeling then specialize into areas of personal interest. Curriculum includes specialization pathways in Race Engineering, Robotics (driverless cars), Enterprise (project management, marketing & business) and Data-Driven Design projects (charging with renewable energies, 3-D CAD, mechanical design, coding).

The Student Racing Challenge is the first step for most. With so many opportunities for improvement and innovation, some students will stay with this challenge for their entire high school career. Others will choose to specialize into other NSL Challenges.

