# TEN80 STEM EXPO

## Phoenix, AZ * Thurs, Sept. 25, 2014

The National STEM League (NSL) is a practice league for future professionals that has recently been named one of four Exemplary and Scalable STEM programs by Change the Equation.

Thanks to sponsorship from the U.S. Army, you are invited to the one-day STEM Expo on Sept. 25, 2014 at a Venue TBD in Phoenix, AZ that highlights project-based curriculum from the NSL and engages high school students and educators in concepts and careers ranging from race engineering to software+hardware innovation.

STEM 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 the challenge you choose, full sponsorship includes up to $4,000 worth of non-consumable materials, STEM curriculum for clubs, camps or courses, training and entry into the 2014-15 National STEM League. Competition is optional. Collaboration and Creativity required!

Email info@ten80education.com to reserve your school's space.

## Expo Details & Highlights

- Thursday, 25 September 2014 from 9:15 AM - 1:30 PM
- Location: TBD in or near Phoenix, AZ
- Transportation: Bussing stipend available upon request
- Lunch provided
- Participants will learn how ALL students can engage in STEM through Ten80's National STEM League and join workshops featuring 3-D CAD and printing, race engineering, robotics and the language of computers and code.

### GET INVOLVED

Ten80Education.com
Toll free 855-836-8033
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NATIONAL STEM LEAGUE

U.S.ARMY

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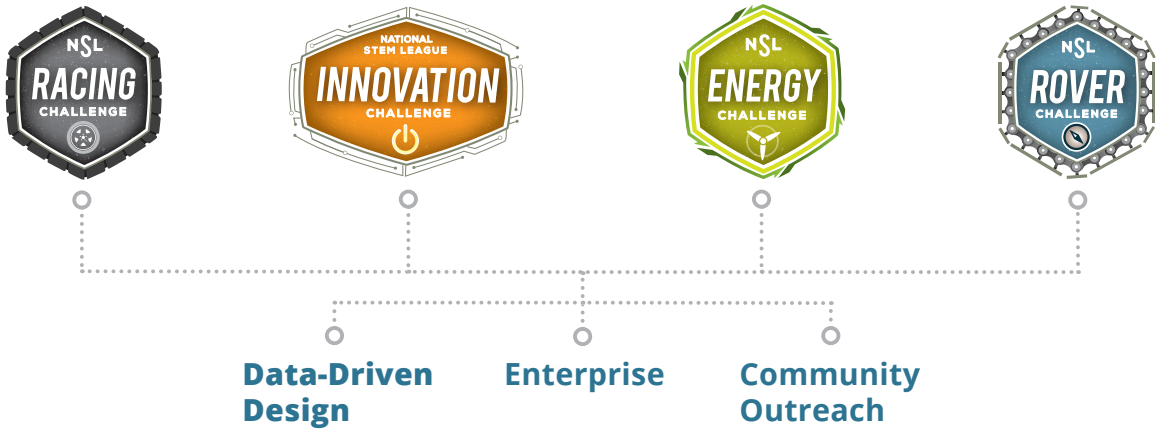
# Project Based Learning that Doesn't Forget the Learning

The National STEM League (NSL) is a practice league for future professionals through which students own their own team or business specializing in race engineering, open source robotics, energy or combining software and hardware to innovate new things. Rover and Racing teams compete in head-to-head competition or time trials. All NSL teams engage in three activities which are fundamental to the success of most businesses and organizations. They get and stay ahead through research and development (Data-Driven Design), manage and market themselves (Enterprise) and enrich their communities (Community Outreach).




Each challenge provides curriculum aligned to the Common Core and NGSS cross-cutting concepts. The curriculum can be implemented in math, science, STEM courses, clubs and camps with details outlined below. Through Ten80's website, students can share their work for feedback from STEM professionals, share ideas with other teams and swap assets such as 3-D printer time or CAD files.

| CHALLENGE | CURRICULUM - ALL CHALLENGES INCLUDE THE ENTERPRISE GUIDE |
|---|---|
| **RACING** | Scope & Sequences for:<br>1. Full year after-school club (weekly 90 minute sessions)<br>2. Full year STEM elective (daily 50 minute session)<br>3. Summer camp (30 contact hours)<br>4. 6 - 10 week modules in Race Engineering, Aerodynamic Design with 3-D CAD, Renewable Energies |
| **ROVER** | 6 week unit (30 contact hours) that addresses concepts from binary code to the algebra behind turns. |
| **ENERGY** | 6 week unit (30 contact hours) in evaluating ambient conditions and creating math models to design an efficient renewable energy charging station in your location. |
| **INNOVATION** | A variety of activities that illuminate concepts and skills behind combining software and hardware to make your ideas into a reality. |

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