



PROJECT EXPLORATION
Changing the Face of Science.®

Request for Proposals

**Explore Engineering: Ten80
After School Program
2014-2015**



RFP Issue Date: September 17, 2014
Proposal Due: October 22, 2014

**Funding includes:
Motorola Solutions Foundation**

Summary and Background

Project Exploration (PE) is currently accepting proposals from community based organizations/community development corporations (CBO/CDC) and Chicago Public High Schools (CPS) that are interested in receiving additional funding for their Ten80 National STEM League afterschool program during the 2014-15 school year. The purpose of this Request for Proposal (RFP) is to solicit applications from various candidates, conduct a fair and extensive evaluation based on the criteria listed herein, and select three-five candidates who can best meet the needs of the students and program. Recipients will receive the following:

- Training and support for implementation of afterschool program
- Connections to engineers
- Financial support for instructor's time
- Additional supplies and journals for afterschool program
- Sponsorship for competition T-shirts
- Promotion of blogs and program progress to PE's partners, parents, and funders

Project Exploration is a nonprofit science education organization whose mission is to make science and engineering accessible to traditionally overlooked communities, particularly minority youth and girls.

Founded in 1999, PE seeks to expand access to science. Our youth programs impact the lives of hundreds of students each year by fostering a long-term involvement in science, and are supported by public programs that provide a window into science in action through exhibits, online initiatives, and contributions to the field of science in out-of-school time.

This year will mark the second round of PE partnering with the U.S. Army-sponsored Ten80 National STEM League to bring the exciting science of race car driving to Chicago Public Schools students and educators. See blogs from PE Teams 2013-14. <http://exploreengineering.wordpress.com/>

Proposal Guidelines

In order to qualify as a recipient of PE funding for your Ten80 after school program you must register 25-50 students and attend the Ten80 STEM Fest/EXPO on Thursday, October 16, 2014 at South Shore Cultural Center, 7059 S. South Shore Drive. This will include access to fully-sponsored National STEM League registration and STEM education materials for 2014-15 provided by Ten80. If you bring a full 50 students your team will also earn an Arduino kit to turn the team racecars into a Robot Car.

Please complete your official registration to the 2014 STEM Festival EXPO and Invitational using this link: <https://www.eventbrite.com/e/ten80-stem-fest-for-high-schools-registration-13005773619> You will receive a confirmation of receipt from Ten80. You may receive a transportation stipend if



you are one of the first 10 to register and formally request a transportation stipend with your registration.

Benefits of Sponsorship: Please check out this link to make sure you understand the benefits to returning (year 2) U.S. Army-sponsored teams. US Army Sponsorship <<http://wp.ten80.wsg.net/wp-content/uploads/2014/08/ArmySponsorship-AND-Options.pdf>>

PE proposal will be accepted until 12pm CST Wednesday, October 22, 2014 by email to staylor@projectexploration.org or traditional mail to 4511 S. Evans Chicago IL. 60653. Any proposals received after this will be put on a waiting list and be considered for the next program opportunity. All proposals must be signed by an official agent of the school or organization that can authorize placement of the program and approve final decisions. Incomplete proposals will not be accepted. Chosen applicants will be notified by Friday, October 24, 2014.

Description of Explore Engineering: Ten80

Ten80 Education's 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. It harnesses the power and excitement of motorsports and innovation through project-based learning that doesn't forget the learning.

At the Ten80 STEM Expos and NSL events, students and educators engage in concepts and careers ranging from race engineering to software+hardware innovations.

The partnership between PE and Ten80 capitalizes on the strengths of both organizations, maximizing the potential for students to learn the engineering principles behind Ten80 while building the foundations for a lifelong engagement with science:

- Help students develop self-esteem about their thoughts, feelings, experiences, and decisions
- Encourage students to explore engineering in a safe environment
- Expose participants to the wide variety of roles played by engineers
- Improve students' overall school performance by developing goal-setting, decision-making, and communication skills
- Combine science learning with leadership development

Program Scope

The scope of Explore Engineering: Ten80 is to ensure quality out-of-school time science opportunities for students while providing full partnership with CPS/CBO/CDC.



Project Exploration works with nearly 250 middle and high school CPS students annually in out-of-school time settings. PE targets students who are open-minded and curious; we particularly focus on young people who may be struggling academically. PE fosters and supports long-term relationships with our participants. After getting students interested in science, we focus on keeping them interested and building their capacity to continue their interests through high school and beyond. All of our programs are free, eliminating the cost barrier that prevents low-income students from accessing dynamic out-of-school time science programs.

Project Exploration seeks to work with partners that can meet the following criteria to achieve a successful Explore Engineering:Ten80 after school program:

1. Provide consistent **meeting spaces** for Ten80 sessions
 - Ensure room is available, open, and ready
 - Have a designated area to conduct programs and store program supplies
 - Have access to restrooms during program time
2. Provide a primary **school contact** who will:
 - Attend the STEM Fest/Ten80 Expo on October 16, 2014
 - Attend PE Orientation meeting
 - Follow the Ten80 guidelines, implement required task properly complete certification, and participate in the White Flag Regional Competition
 - Ensure timely and clear communication between the school, Ten80 and PE
 - Recruit at least 15 students for a Ten80 team who will actively participate in the program, can commit to attending each session, and are willing to experience something new and are curious and interested in learning more about science
 - Ensure students are reminded about program and important dates
 - Work with PE and school to provide a 3rd meal option for each program day for every student
3. Implement the **PE model**
 - Submit completed student intake forms and weekly attendance
 - Administer pre/post-assessments
 - Conduct icebreakers/teambuilding activities
 - Carry out Ten80 curriculum with a student centered approach
 - Issue digital badges for student tasks completion
 - Have students journal about their experiences
 - Provide weekly blogs with pictures and student quotes
 - Invite/allow at least four guest speakers to connect with students about engineering careers
 - Communicate with school, students, and PE about Ten80
 - Conduct a culminating event for families, friends, and school staff in May 2015
 - Be positive and have fun



RFP and Project Timeline

Request for Proposal Timeline:

Proposals are due no later than 12pm CST	Wednesday, October 22, 2014
Review of proposals	Thurs.-Fri., October 23-24 *, 2014
Notification of acceptance	Monday, October 27, 2014
Notification to applicants who were not selected	Wednesday, October 29, 2014

Program Timeline:

Student Expo	Thursday, October 16, 2014
Program Orientation	November TBD
Start of Programs	Negotiable
Midterm Meeting	Week of February 2, 2015
Culminating event	May 2015
White Flag Regional	TBD: 2015
Wrap up meeting	Week of May 25, 2015

*If additional information or discussions are needed Project Exploration will use this time to consult with the applicants.

Qualifications

PE will evaluate all proposals based on the following criteria. To ensure consideration for this RFP, your proposal should be complete and include the following items by 12pm CST Wednesday, October 22, 2014:

- Evidence of registration/attendance to STEM Fest/Ten80 Expo
- Résumé of teacher/instructor that will teach the after school program
- Signed Service Contract, pages 6-7
- Completed application on google
<https://docs.google.com/forms/d/112CeCN6yIBnqc8gSKfFczyqaXdxZ3oNQJ8II-HP4WxY/viewform>

Contact Information	Mail
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Project Exploration Service Contract 2014-15

Explore Engineering: Ten80

Project Exploration (PE) is a nonprofit science education organization whose mission is to make science and engineering accessible to traditionally overlooked communities, particularly minority youth and girls.

The scope of Explore Engineering: Ten80 is to ensure quality out-of-school time science opportunities for students while providing full partnership with schools/community development corporations. Ten80 is a project-based learning program that welcomes 15+ students, both girls and boys. The program will include hands-on curriculum, fun instructors, material and supplies for each participant, evaluations to determine students' learning, and a culminating event for staff, family and guest.

The following outlines the Explore Engineering: Ten80 after school program agreement between Project Exploration and (school/organization)_____.

Project Exploration will provide:

- Training and support for implementation of after school program
- Connections to engineers
- Financial support for instructor's time
- Additional supplies and journals for afterschool program
- Sponsorship for competition T-shirts
- Promote blogs and program progress to PE's partners, parents, and funders

Name of school/organization _____ will:

- Provide consistent **meeting spaces** for Ten80 sessions
- Ensure room is available, open, and ready
- Have a designated area to conduct programs and store program supplies
- Have access to restrooms during program time _____(Initials of Primary Contact)

Name of teacher/instructor _____ will:

- Attend the STEM Fest/Ten80 Expo on October 16th
- Follow the Ten80 guidelines, implement required task properly complete certification, and participate in the White Flag Regional Competition
- Attend PE/Ten80 Orientation Meeting
- Ensure timely and clear communication between the school, Ten80 and PE
- Recruit at least 15 students for a Ten80 team who will actively participate in the program, can commit to attending each session, are curious and interested in learning more about science.
- Ensure students are reminded about program and important dates
- Work with PE and school to provide a 3rd meal option for each program day for every student

_____ (Initials of Primary Contact)



The teacher/instructor will also implement the PE model while teaching Ten80 as listed below:

- Submit completed student intake forms and weekly attendance
- Administer pre/post-assessments
- Conduct icebreakers/teambuilding activities
- Carry out Ten80 curriculum with a student centered approach
- Issue digital badges for student tasks completion
- Have students journal about their experiences
- Provide weekly blogs with pictures and student quotes
- Invite/allow at least five guest speakers to connect with students about engineering careers
- Communicate with school, students, and PE about Ten80
- Conduct a culminating event for families, friends, and school staff in May 2015
- Be positive and have fun

_____ (Initials of Primary Contact)

By initialing and signing this agreement you are stating that you can provide each item listed for the Explore Engineering: Ten80 afterschool program for the 2014-2015 school year.

Name of school _____

Principal _____ Phone: _____

Email _____ Sign up for Newsletter? Yes No

Principal's Signature _____ Date _____

CBO/CDC _____

Executive Director _____ Phone: _____

Email _____ Sign up for Newsletter? Yes No

Executive Director's Signature _____ Date _____

Teacher/instructor _____ Phone: _____

Email _____ Sign up for Newsletter? Yes No

Teacher/Instructor Signature _____ Date _____

Primary Contact _____ Phone: _____

Email _____ Sign up for Newsletter? Yes No

Primary Signature _____ Date _____

