

SOUTHWORKS

ENGINEERING AND ROBOTICS

2017 Program Proposal
southworksrobotics.com



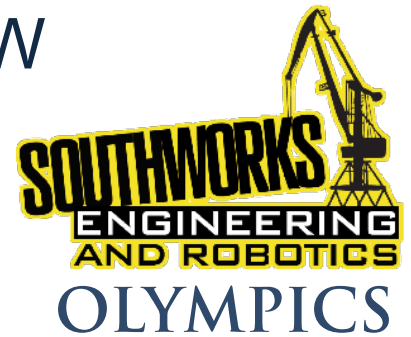
SERO: PROGRAM OVERVIEW



The purpose of the Southworks Engineering and Robotics Olympics is for regional manufacturing companies to sponsor and partner with local high schools to develop their individual projects for the 2017 Spring Competition.

Working together we can creatively support learning outcomes by combining classroom instruction with your industry expertise.

We have designed several manufacturing challenges that local companies and student clubs can work collaboratively on in a healthy competition designed to encourage their team-building, problem solving creativity and unique engineering ability.



BENEFITS OF CORPORATE SUPPORT:

Industry Awareness

- *Bringing awareness to career opportunities in the manufacturing sector*

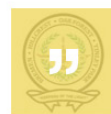
Talent Recruitment

- *Opportunity for companies to identify future employees while helping students compete*

Community Support

- *Contribute to local schools and students to enhance their programming and education*

PARTICIPATING SCHOOLS



SOUTHWORKS OLYMPIC TEAM:



Calumet
GREEN MANUFACTURING
Partnership



OAI OPPORTUNITY
ADVANCEMENT
INNOVATION
IN TECHNOLOGICAL DEVELOPMENT



BRIEF COMPETITION DESCRIPTIONS:

SUMO Survivor

- *Your Goal: Each robot has to find its opponent and cast it out of a 12 foot diameter ring in 2 minutes.*

Catapult Launch

- *Your Goal: Using approved supplies on the list, build the catapult that will launch the approved projectile the furthest.*

ROBO Pathfinder

- *Your Goal: Build a robot that will successfully follow a line and react to motion, light, or touch.*

VEX Robotics

- *Students will compete in timed competitions designed by club advisors and industry partners using VEX Kits.*

Autonomous Racer

- *The Goal: build a driverless vehicle that can reach the finish line the fastest without electricity.*

TETRIX Robotics

- *Students will compete in timed competitions designed by club advisors and industry partners using TETRIX Kits.*

HIGH SCHOOL COMMITMENT

Here are the steps interested schools need to complete:

- Complete a registration packet
- Attend initial fall meeting with their company
- Dedicate one staff person to the project throughout the school year
- Coordinate students for one in person meeting per month with company partner
- Compete in at least one spring event



HOW THE PROGRAM WORKS:

"EDUCATION IS THE KINDLING OF A FLAME NOT THE FILLING OF A VESSEL."

SOCRATES,

All schools in the Chicago Southland region are invited to participate. Each school will be given a registration packet during the orientation that explains the competitions in detail, how they will be judged, and key dates to keep everyone on track.

The competition will take place in the Spring of 2017 and the location and date will be confirmed once school resumes in September 2016.

HOW TO PARTNER

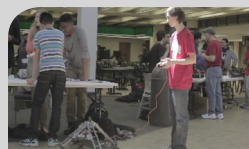
We are asking companies to commit to the following minimum requirements:

- Complete a registration form
- Attend initial fall meeting with school
- Dedicate one staff person to the project throughout the school year
- One in person meeting per month
- Compete in one spring event
- Commit at least \$1000 to the initiative*

*Payment will be made to CSECD and distributed to partnering schools

Companies are welcome to go above this minimum level of support in any of the above areas (ex. meet more times a month, involve more staff) but these points will be used to establish a baseline.

Companies may select their preferred school or can be appointed a school based on location. The goal is to pair every interested school with a local company.



HOW THE PROGRAM WORKS:
[Click here to view description](#)

HOW TO PARTNER

OLYMPIC TEAM:



BRIEF COMPETITION DESCRIPTIONS:

- SUMO Survivor
- Your Goal: Each robot has to find its opponent and cast it out of a 12 foot diameter ring in 2 minutes.



MATERIAL LIST AND RULES

The materials list and judging rubric will be provided at the initial fall meeting so schools and companies know exactly what the judges will be looking for. The dates and meeting times will be determined by each school partner. Jason Thomas will answer all programming questions throughout the region. He will facilitate all orientations and coordinate all of the program logistics. His email address is jasonythomas@gmail.com and the website for the event is southworksrobotics.com All updates and info will be posted monthly.

2017 Company Registration Form

All interested companies are required to complete this registration form and return to Reggie Greenwood or Jason Thomas. All companies are required to sponsor each school for a minimum of \$1000 to go toward the robotics competition and meet at least once a month with their students to work on their project.

All registration forms are to be completed and returned no later that **Friday September 2nd**

CONTACT INFORMATION

TITLE:	Mr	Mrs	Ms	Dr	Prof.	Other, specify:
FIRST NAME:					LAST NAME:	
COMPANY					MAIN TELEPHONE:	
TOWN/CITY:					WORK PHONE	
WEBSITE:					PRIMARY EMAIL:	

AVAILABILITY

WHAT DAY OF THE WEEK WORKS BEST FOR YOUR COMPANY TO MEET WITH STUDENTS?	MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY	HOW OFTEN CAN YOUR COMPANY MEET WITH STUDENTS TO WORK ON THE PROJECT?	MONTHLY BI MONTHLY WEEKLY
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HIGH SCHOOL PARTNERING PREFERENCES (LOCATION OR EXISTING RELATIONSHIP)

Please indicate your preference. If you do not have one, please indicate the city where you are located so that we can match you with a nearby school.

HIGH SCHOOL NAME	CITY	REASON
1.		
2.		
3.		
4.		

PAYMENT INFORMATION - Please select one of the following options:

I will send my sponsorship payment of \$1000 payable to CSEDC addressed to Reggie Greenwood 1904 W. 174th Street. East Hazel Crest IL 60429

I will pay my sponsorship payment of \$1000 via Credit Card . Please follow payment steps by clicking on this link: >>> **CLICK HERE TO PAY ONLINE**<<<

DATE:		SIGNED: (or write name here)	
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ADDITIONAL NOTES:

- Receipts will be issued on request and be provided at the initial fall meeting.
- The Registration Form should be accompanied by the appropriate payment method.