



The Genius Within Cooperative Learning Center

Empowering Students through STEM

HEROES ALLIANCE
 RAISING A RIGHTEOUS GENERATION
www.HeroesAlliance.net

Strategic Partners



GENERAL MOTORS



Who We Are

Heroes' Alliance

(<http://heroesalliance.net/>) is a non-profit 501c3 organization headquartered in Detroit, MI. The overall mission of Heroes' Alliance is to build a community of resourced and empowered individuals who see and use education as a path to success. The following goals help work toward that mission:

- Provide an education platform that connects students with university and industry partners
- Engage students from high school through college to career placement
- Provide mentorship that is trained in best practices to help students learn STEM skills.

Heroes' Alliance is committed to creating a systematic means of supporting our students, especially underrepresented minorities in southeast Michigan, from secondary education through entry into the STEM workforce. We endeavor to inspire a diverse generation of STEM innovators and leaders who make meaningful contributions in their communities and the nation as a whole.

Overview

This **Cooperative Learning Center (CLC)** utilizes vehicle technology as a platform for STEM engagement with high school students in an after-school capacity. The goal of this program is to create an ecosystem of education and innovation that synergistically aligns the efforts and interests of academia and industry, thus building a secure pipeline of support that systematically prepares students from high school all the way through job placement in a STEM field.

High school students in grade ten begin engagement in a three-year program that will prepare them for success at the next level. Students who graduate from this stage of the program will go on to enter two and four-year degree programs with some choosing direct entry into the workforce. High school graduates will continue to receive support from our industry partners through mentorship, internships, and job placement upon graduation from college and/or obtainment of technical certifications.

Program Options:

- Dual Enrollment
- Summer Enrichment
- Internships
- Early Certification
- Tuition Assistance
- Scholarships
- Job Placement

Technical Competencies:

Computation

- Measurement & Estimation
- Information Analysis
- Technical Writing
- Client Surveying
- Research
- Presentation
- Project Management

Marketing

- Computer Aided Design
- Renewable Energy
- Applications
- Welding
- 3D Printing
- Robotics



Our Agenda

ESTABLISH STEM as a viable career option in the heart and mind of every student who enters our program.



We Will

- Excite and Encourage
- Shift the Perception
- Prepare for College
- Increase Soft Skills
- Diversify STEM Populations
- Create a Sustainable, Scalable Model.

Parental Engagement

The CLC will include a platform for parental engagement that will allow students and parents together to explore pathways toward advanced manufacturing including college and career options. The purpose is to proactively include the parents as major stakeholders in the education process. As options and opportunities are presented to the students, they will simultaneously be presented to the parents, thus creating an atmosphere of shared interest and responsibility. Likewise, as myths concerning advanced manufacturing careers are debunked for the students, they will simultaneously be debunked for the parents, thus breaking down potential barriers to a student's long-term success. Our overall goal is to support and resource parents as they advocate the best future for their children.

Program Objectives

- Students and parents will have an increased positivity toward STEM majors and STEM careers, especially as it relates to advanced manufacturing careers
- Students will show an increase in STEM literacy
- Students will develop a set of hard, soft, and transferable skills relevant to STEM careers

Heroes' Alliance gives “Detroit students the chance to gain real world skills in a fun, hands-on way to prepare them for future careers.”

Michigan Lt. Governor Brian Calley

Outcomes

- Increase the number of students who earn a degree or certification in an engineering or engineering technology field that matches market needs
- Diversify the STEM workforce through the increased presence and achievement of women and underrepresented racial minorities in STEM fields, especially advanced manufacturing careers

Who Can Apply?

Heroes' Alliance is currently accepting applications for the cohort that will begin meeting in October 2018. Students must meet the following requirements:

- Be a current ninth grade student enrolled in a public school in Wayne County
- Have a cumulative GPA of 3.0 or higher
- Have a current interest in gaining additional exposure to STEM, specifically engineering and technology fields
- Be willing to make a commitment to attend all sessions of the program and be a productive member of the center

Requirements

Students must submit all of the following in order to receive consideration for the program:

- Completed and Signed Application
- Copy of High School Transcript through quarter three of ninth grade
- Typed Letter of Recommendation from a high school teacher, no more than one typed page
- An essay of 200 words or less explaining why you want to participate in the program

Logistics

The Genius Within Cooperative Learning Center is located inside the Focus: HOPE Machinist Training Institute at 1200 Oakman Blvd. Detroit, MI 48238.

Students will meet twice per week on either Mondays & Wednesdays or Tuesdays & Thursdays for thirty weeks from 4:30pm - 6:30pm

Deadlines

Completed, signed applications must be submitted no later than 5pm on May 30th. LATE APPLICATIONS WILL NOT BE ACCEPTED.

Students will be notified by email of their status by June 15, 2018.

For More Information, Contact:

Anika Smith

313-649-5399

asmith@heroesalliance.net