

Forum to Advance Minorities in Engineering, Inc. (FAME Inc.)

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Mission Statement: To prepare and motivate students in grades K-12, with a specific focus on underrepresented minorities and girls, to enter college and complete a baccalaureate degree in engineering or other STEM related fields of study. **Founded in 1976 by the DuPont Company**, FAME is one of the nation's first non-profit STEM education organizations.

FAME Inc. seeks to motivate students to explore, seek solutions and apply academic rigors when faced with daily challenges. **Our vision is focused on cultivating a community united toward achieving academic excellence for kids!** To this end, FAME will provide STEM education through service and outreach to more than 4,000 students in 2017/18.

STEM Enrichment Program

- Addresses Delaware's persistent need to motivate and prepare underrepresented minorities and girls to pursue a 4-year degree in a STEM-related fields and succeed in a STEM career.
- Annually provides over **220 hours** of intensive, advanced STEM instruction that builds upon what our students learn in their home schools.
- Offers a 6-week summer enrichment program, a school year enrichment program two Saturdays each month, college preparation & test awareness workshops, and field trips to leading STEM industries.
- 11th and 12th grade students participate in a 4 week on campus professor-led summer program at the University of Delaware's College of Engineering. **Secure high quality internships for our future STEM leaders.**
- *Target Population:* 200 middle and high school students (grades 7-12) from throughout New Castle County. 93% of our students are underrepresented minorities, primarily African American but include Latino, Asian American and Caucasian students. 58% are females.
- *Partners:* New Castle County public, private, parochial and charter schools, Red Clay Consolidated School District, University of Delaware, Delaware STEM Council, and local industry leaders.
- *Objectives:* **95% of students maintain a 3.0 grade point average or better at school with good attendance; at least 20% of students matriculate through all 6 years of programming; 99% of graduates enroll in a 4 year college or university; at least 65% of graduates major in a STEM-related field of study; and at least 20% of graduates attend a college or university in Delaware.**
- *Sustainability:* This program is supported by tuition and state/corporate/foundation grants.

STEMulate™ Change Outreach Initiative

- Established in 2013, provides interactive, hands-on STEM programming during out-of-school hours to ignite interest in STEM subjects and careers.
- Innovative curriculum focused on historical American and Global STEM Icons increases the likelihood that any child, irrespective of demographics or academic ability, will gain an interest in learning about STEM.
- Vetted by Change the Equation and accepted into the STEMWorks database as a national STEM model of a "program that meets a high bar for effectiveness".
- *Target Population:* **At-risk students in grades k-6 (age 4-12). 600 students in New Castle County to be served in 2017/18.**

- *Partners to date:* Red Clay Consolidated School District, Brandywine School District, Appoquinimink School District, Thomas Edison Charter School, Great Oaks Charter School, Kuumba Academy, Boys and Girls Clubs of Delaware, Police Athletic League of Delaware Hilltop Lutheran Community Center, Delaware Math Consortium, Community Education Building
- *Proposed Partners:* Christina School District, Colonial School District, Delaware Futures, East Side Charter School, YMCA of Delaware
- *Proposed Outcomes:* 1) project scaled in New Castle County Delaware; 2) impact measured on: a) increasing participation in STEM activities; and b) motivating students to develop a higher interest in STEM learning and careers; 3) program model will be informed and refined through evaluation and lessons learned; 4) industry professionals and peer mentors will be integrated into the classroom; and 5) Updated and unique curricula will be developed and implemented annually
- *Sustainability:* This program is supported by earned income from contracts and grants.

Program Year: FAME Inc. operates both its core enrichment program and the STEMulate® Change initiative year-round. Fall/Spring sessions conclude in May with summer sessions beginning in June annually.