The National Society of Black Engineers (NSBE) Birmingham Professionals Chapter is a 501(c) (3) non-profit association dedicated to the academic and professional success of African American engineering and technical students and professionals.

Our mission is to increase the number of culturally responsible black engineers, who excel academically, succeed professionally and positively impact the community. NSBE-Birmingham fulfills the mission of NSBE by organizing, sponsoring, and attending an array of workshops, community activities, scholarship funding, mentoring, and networking events.

We facilitate the development of strong technical professionals and leaders, encourage minority students to eagerly seek out degrees in Science, Technology, Engineering and Mathematics related fields, and empower the community with the knowledge and foresight to strengthen the very foundation that enables our community as a whole to achieve greater heights.

CHAPTER OBJECTIVES:

- Stimulate and develop student interest in the various engineering disciplines.
- Encourage and advise minority youth in their pursuit of an engineering career.
- Strive to increase the number of students studying engineering at the undergraduate and graduate levels.
- Encourage members to seek advanced degrees in engineering or related fields and to obtain/maintain professional engineering registrations.
- Promote public awareness of engineering and the opportunities for blacks and other minorities in that profession.
- Function as a representative body on issues and developments that affect the careers of black engineers.

Visit us at www.nsbebham.org

Follow us on Twitter, LinkedIn, YouTube, and Facebook
Nominate Someone for a Discover-E Award

DiscoverE honors some of the nation’s most promising engineering professionals of tomorrow with its annual New Faces of Engineering Awards. These individuals exemplify the vision, innovation and leadership skills that form the foundational elements of a successful engineering career.

In addition to their engineering feats and pro-social initiatives, the nominees have demonstrated leadership within their engineering societies and engineering outreach programs.

Visit www.discovere.org/ce for more information about this program.

Nomination Process

Download the 2016 New Faces Nomination Guide to assist you before completing the online form. The online nomination form must be completed in one session (and cannot be saved mid-completion), so this guide is very useful for preparing your answers. Once you’re ready, APPLY ONLINE! The 2016 online nomination form is due by midnight EST on Nov 20, 2015.

The 2016 New Faces nominee finalists will be selected by their respective professional societies and announced in February 2016. The top 2016 New Faces winners will be selected by DiscoverE and announced on April 4th, 2016.

Recognition

Each year a new class of New Faces nominees and award winners are selected. The winners are featured in national/local media outlets and featured on the DiscoverE web site with a photo and a brief statement of each engineer’s accomplishments. New Faces are also recognized by their nominating professional societies in a variety of ways, such as articles in the organization’s member magazine and at national and local events. New Faces are also designated as “Engineering Ambassadors” and may be asked to participate in a variety of outreach or community-building events.

About DiscoverE

The mission of DiscoverE is to sustain and grow a dynamic engineering profession through outreach, education, celebration and volunteerism. DiscoverE supports a network of thousands of volunteers in its partner coalition of more than 100 professional societies, major corporations and government agencies. Together we meet a vital need: introducing students, parents, and educators to engineering, engaging them in hands-on engineering experiences and making science and math relevant. For more information, visit www.discovere.org.

Eligibility Requirements:

- You must be a member of a participating professional society.
- You must be 30 years of age or younger as of December 31, 2015
- You must have a degree in engineering from an ABET Accredited (EAC) U.S. college or university, or from an equivalent international educational institution. Degrees in science, computer science, engineering technology, or similar fields are not eligible
- Nomination forms must include a color headshot photo. Photos should be head and shoulder shots of high quality.
- Applications for 2016 are due by midnight on November 20th, 2015.
S.T.E.M. vs S.T.E.A.M.: Do The Arts Belong?

A tug of war is currently looming between proponents of STEM education (science, technology, engineering, and math) and advocates for STEAM lessons, which add art to the mix. Whichever side you come down on, here are some ideas for you to mull over.

S.T.E.M.
First, consider the why and what of STEM education. Both private and public sectors report that 21st-century workers require skills that many of today’s graduates don’t have. Students need more in-depth knowledge of math and science, plus the ability to integrate and apply that knowledge to solve the challenges facing our nation. Children who study STEM also develop a variety of skills that are essential for success: critical thinking and problem solving, creativity and innovation, communication, collaboration, and entrepreneurship, to name a few.

A number of K-12 programs currently fly under the STEM banner. However, a 2014 study published by the America Society for Engineering Education identified several characteristics of quality STEM programs:

1. The context is motivating, engaging, and real-world.
2. Students integrate and apply meaningful and important mathematics and science content.
3. Teaching methods are inquiry-based and student-centered.
4. Students engage in solving engineering challenges using an engineering design process.
5. Teamwork and communications are a major focus. Throughout the program, students have the freedom to think critically, creatively, and innovatively, as well as opportunities to fail and try again in safe environments.

STEM, then, is a specific program designed for a specific purpose—to integrate and apply knowledge of math and science in order to create technologies and solutions for real-world problems, using an engineering design approach. It’s no surprise that STEM programs need to maintain an intense focus.

S.T.E.A.M.
Recently, the idea of adding the arts to STEM programs has been gaining momentum. Surprisingly, I’ve heard push-back from both camps:

From STEM proponents: Engineering and technology can certainly serve the artist and help create art. But if we’re talking about how one can use art in engineering… as an artist, it seems we’re missing the point and devaluing, or not realizing, art’s purpose and importance. We have it backwards.

So how exactly can teachers fit the arts into STEM programs and do justice for both STEM and STEAM? What would an ideal STEAM program look like?

1. From arts proponents: Engineering and technology are considered different skill sets that in our technically focused world, we have a responsibility to educate the whole child to be a well-rounded citizen. She aims to do just that while staying true to the specific purpose of STEM education.

Art also provides diverse opportunities for communication and expression. Ruth believes that in our technically-focused world, we have a responsibility to educate the whole child to become a global citizen in his or her community. She aims to do just that while staying true to the specific purpose of STEM education.

How Do We Solve the STEM vs. STEAM Conundrum? READ MORE
On December 8, 2015 NSBE Birmingham will host its annual Holiday Mixer at The Club Birmingham

Join us as we reflect on a great year of service to the Birmingham community and prepare to do it all again in 2016.

The speaker for the event will be Wanda Lambert from Auburn University.

Mrs. Lambert will be discussing the Auburn Engineering Online Graduate degree and the Engineering Professional Development programs.

Those in attendance will be eligible for a door prize
Updates on FEA

Alabama A&M Campus Tour
(November 7)

Future Engineers of America (FEA) attended a campus tour to Alabama A&M University on November 7th 2015.

During the tour, information regarding admissions, housing, financial aid, and scholarships was provided to students. Students were also treated to a free football game between Alabama A&M and Mississippi Valley State.

Save the Date The Next FEA Meeting is December 13th

The next FEA meeting is scheduled for December 13, 2015. The agenda will include a presentation Software Engineering.

FEA meetings are held at the Alabama Corporate Headquarters. Located at:

600 North 18th Street
Birmingham, AL 35203

Those interested in volunteering as FEA advisors should contact the PCI co-chairs at pci@nsbebham.org

Future Engineers of America is led by PCI co-chairs Julian Grant and Kreana Pye

Julian Grant

Kreana Pye

Visit us at
www.nsbebham.org

Follow us on Twitter, LinkedIn, YouTube, and Facebook
NSBE Birmingham is excited about the upcoming programs and events that will be offered this year!

Mark your calendars for planned activities.

### 2015-2016: NSBE Birmingham Planned Events

#### 2015

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<tr>
<th>November</th>
<th>2016</th>
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<tr>
<td>Alabama A&amp;M Campus Tour (Nov 7)</td>
<td>Future Engineers of America (Jan 10)</td>
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<td>Future Engineers of America (Nov 8)</td>
<td>Alabama Power HQ</td>
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<td>Alabama Power HQ</td>
<td>MLK Day of Service (Jan 18)</td>
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<td>Networking Outing with UAB and UA NSBE Student Chapters (Nov 14)</td>
<td>Inhabit Bush Hills</td>
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<td>Hudson Elementary Career Fair (Nov 18)</td>
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<tr>
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<tr>
<td>NSBE Holiday Mixer (Dec 8) The Club of Birmingham</td>
<td>Future Engineers of America (Feb 14)</td>
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<td>Future Engineers of America (Dec 13) Alabama Power HQ</td>
<td>Alabama Power HQ</td>
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<td>General Body Meeting (TBD)</td>
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<td>Future Engineers of America (Feb 14)</td>
<td>Future Engineers of America (March 13)</td>
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<td>Alabama Power HQ</td>
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<td>Future Engineers of America (Apr 13)</td>
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<td>Alabama Power HQ</td>
<td>Alabama Power HQ</td>
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<td>35th Annual Scholarship Banquet (May 7)</td>
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<td>McWane Science Center</td>
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<th>June</th>
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<tr>
<td>NSBE Birmingham Executive Board Nominations &amp; Elections</td>
<td>NSBE Birmingham Family Fun Day (TBD)</td>
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To volunteer to help organize these events please contact the Programs & Membership Chair, Jermaine Clements, at programs@nsbebham.org

Visit us at www.nsbebham.org

http://www.linkedin.com/groups/NSBE-Birmingham-Professional

![Jermaine Clements](image)
Give Us Your Feedback!

What can we do to improve your membership experience?

Please send comments and suggestions to our Programs/Membership Chair at membership@nsbebham.org

National Society of Black Engineers - Birmingham Professionals
PO Box 380714
Birmingham, Alabama 35238-0714

Contact us:

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Treasurer  treasurer@nsbebham.org
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