

Professional Swieties-Shifting Gltures-Supporting Black Studentsthrough their SEM Career Jonneys



Favour Nerrise

Electrical Engineering Ph.D. Student — Stanford University

National Chairperson — National Society of Black Engineers





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Computer Engineering & Mathematics B.S./M.S. '21



Electrical Engineering, Ph.D. Student SGF, EDGE, and NeuroTech Training Program Fellow





NSBE National Chair, '21-'23 NSBE Jr Leader=>Regional Leader, '10-'20







NATIONAL SOCIETY OF BLACK ENGINEERS

Bur Mission

The mission of NSBE is to increase the number of culturally responsible Black Engineers who excel academically, succeed professionally and positively impact the community.



1975

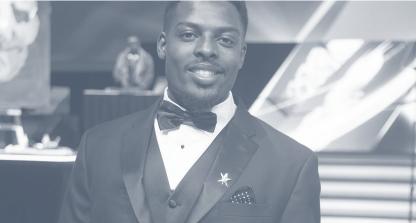
 Founded in 1975 by the Chicago Six at Purdue University 600+

More than 600 Pre -Collegiate,
 Collegiate and Professionals
 Chapters

24,000+

 More than 24,000 active members in the U.S. and abroad





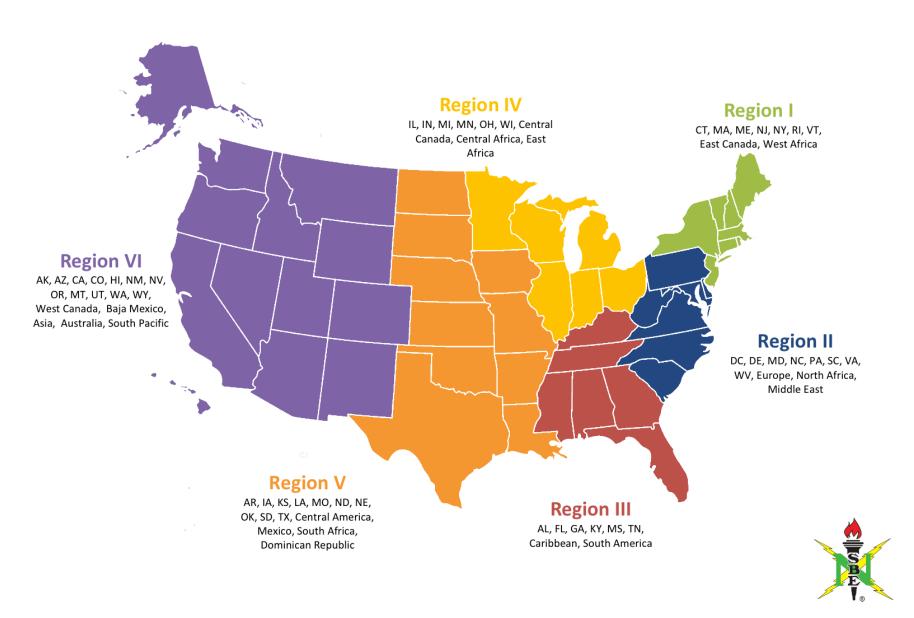


MSBE's Uniqueness

We are the largest student governed organization in the world!

NATIONAL SOCIETY OF BLACK ENGINEERS

MAP OF REGIONS





Birthed Hundreds of Businesses



Trained Thousands of Engineers



Graduated Tens of
Thousands of
Engineers





Engaged Hundreds of Thousands of K-12 Students

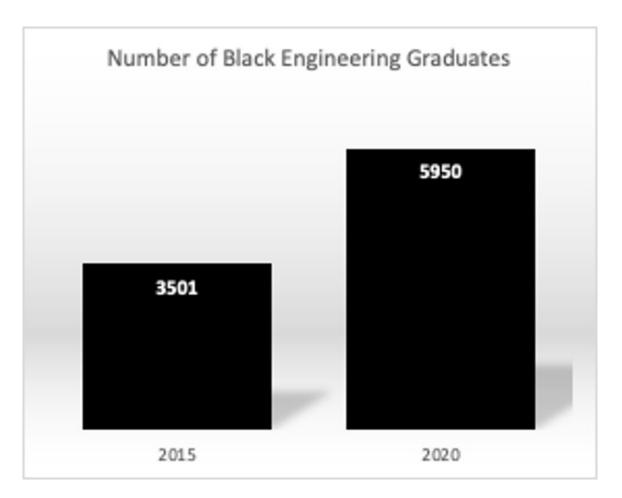




Leadership

Technical Excellence Academic Excellence

Powering #10 Kayatharte 2025



Solutions: Pathways and Areas of Focus

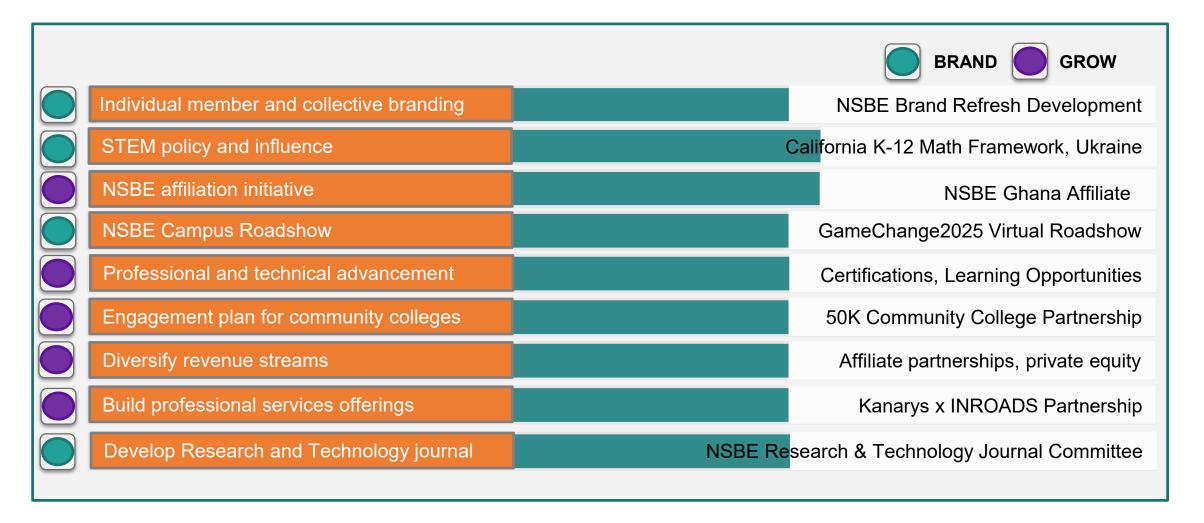
The NSBE SPTF has charted a path that will start small, scale smart, and lead toward a vision, a path that embodies "think big." The plan is developed around five lanes, three core programmatic pathways, and two core business areas.

The pathways align with our core demographic segments:

- **READY!** (the Pre-Collegiate Engagement pathway)
- SET!! (the Collegiate Scholastic Achievement pathway)
- GO!!! (the Professional Advancement pathway)
- **BRAND!** (Growing NSBE's brand reputation and caliber among internal and external audiences), and
- * GROW! (strategic investments in NSBE's future sustainability).

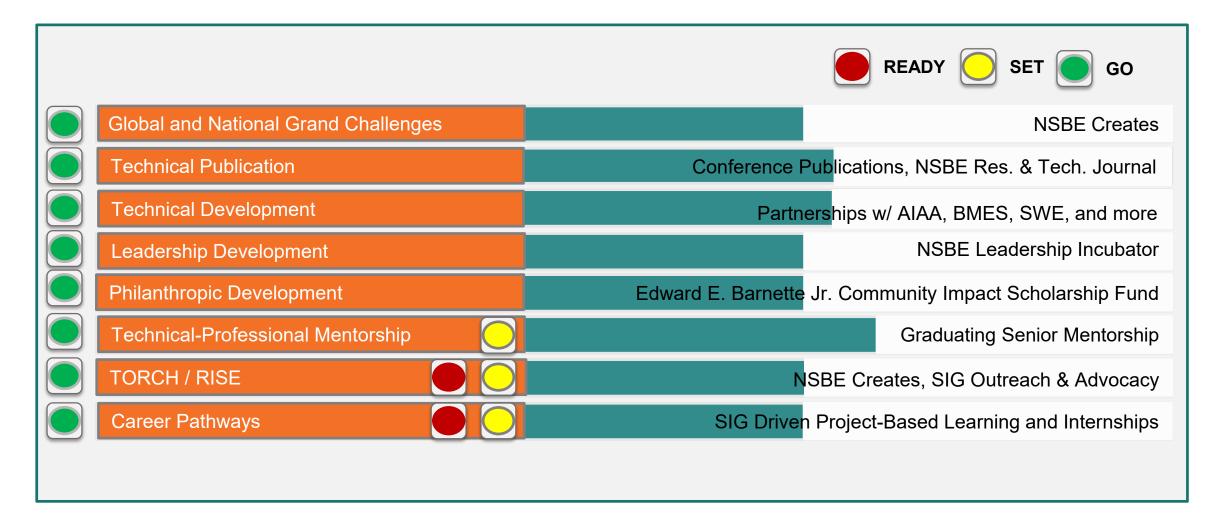
gamechange2025.nsbe.org

Societal Value-added Programming



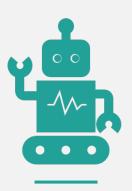


Societal Value-added Programming









Summer Engineering
Experience for Kids
(SEEK)



NSBE Jr. Chapters



Scholarships



Mentorship





Retention Program



RISE Initiative



Mental Health Initiative



Mentorship





Special Interest Groups (SIGs)



Professional Development



Training & Certifications



Mentorship

Partnering with NSB

GameChange2025 - Executive Dashboard (Meaningful Data)

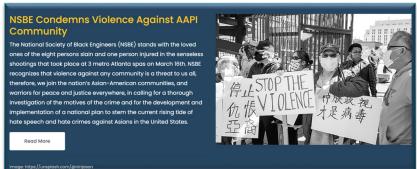


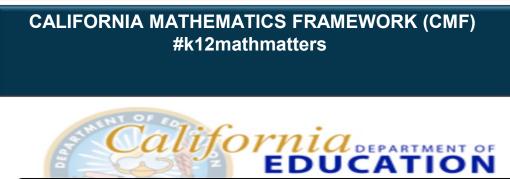
LIVE at gamechange2025.nsbe.org

GameChange2025 - Public and Social Policy



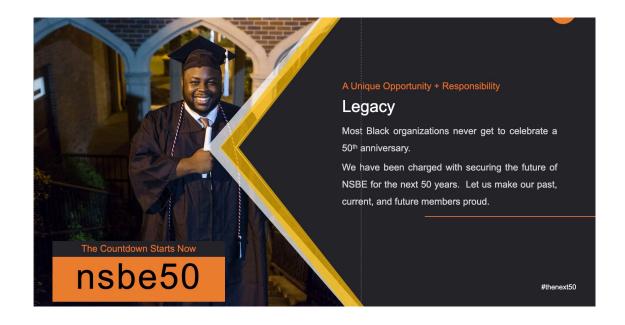






socialjustice.nsbe.org

GameChange2025: BRAND & GROW



NSBE Brand Refresh: #TheNext50



The NSBE Scientific Journal



NATIONAL SOCIETY OF BLACK ENGINEERS

CONTACT

LOCATION

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APPENDIX

Ready

Critical Initiative	Current Program/Activity	Suggested Changes
Awareness of STEM (Kindergarten - Grade 2)	 Informal Science & Engineering via T.O.R.C.H T.O.R.C.H Festivals STEAM Fairs 	 Formalize Informal Science and Engineering introduced through T.O.R.C.H. Develop curriculum that includes a toolkit and handon activities to be completed by K-2 students and implemented by key stakeholders



Ready

Critical Initiative	Current Program/Activity	Suggested Changes
Engagement in STEM (Grades 3-5)	 Informal Science and Engineering via T.O.R.C.H T.O.R.C.H Festivals STEAM Fairs Competitions SEEK 	 Convert non-NSBE Jr. members to NSBE Jr. students using SEEK Keep students engaged with STEM throughout the year via NSBE Introduce students to STEM principles that will be used as they matriculate through preparatory school Begin to guide students in developing their engineering identity



Ready

Critical Initiative	Current Program/Activity	Suggested Changes
Development into STEM (Grades 6-8)	 Mentorship T.O.R.C.H Festivals STEAM Fairs Competitions College tours 	 Begin to develop professional skills of middle school students while further developing STEM proficiency New programming should be introduced at annual meetings to reaffirm skills learned
Application of STEM - College Readiness (Grades 9-12)	 Mentorship Standardized test preparation Competitions College tours 	Engage students in leadership, technical development, and teamwork to prepare them for professionalism



Set

Critical Initiative	Current Program/Activity	Suggested Changes
NSBE Retention Program	 Professional Skills Workshops Mentorship Study Halls and Semester Check-Ins Mental Health Awareness (Introduced in 2020) 	 Facilitated Study Halls Upper/Lowerclassmen mentorship Mental Health Awareness Development
Professional & Leadership Development	 Engineering Diversity Competitions Company Sponsored Events NSBE Fellows Shadow Initiative Engineering Career Academy 	ECA expansionCareer Pathways ProgramLeadership ToolkitMOUs



Set

Critical Initiative	Current Program/Activity	Suggested Changes
Community Service and Impact	 STEM Community Training Informal Engineering and Science Education Technical Expertise Services and Traditional Community Service R.I.S.E. Program (Introduced in 2020) 	 Technical Literacy Program Establish RISE as NSBE Initiative
Multicultural Engineering/STEM Program & Faculty Engagement	The Dean & Minority Engineering Program (MEP) Strategic Roundtable	 Quarterly Forums MEP and STEM Faculty Inclusion on Chapter Level via AEX Listserv of Engineering Program Deans
Mentorship	MyNSBE Bulletin Board	Structured program with formal evaluations



Go

Critical Initiative	Current Program/Activity	Suggested Changes
*Technical Development	 The Special Interest Groups (SIGs), in collaboration with the TechEx Chair, co-create and curate content for the society. Industry specific knowledge and relationships are leveraged to support engagement in research, outreach, advocacy and development 	 Talent Development should continue to focus on non-technical development (i.e. general professional development) and leadership. The Professional Executive Board (PEB), supported by the Tech Ex chair, should leverage the SIGs to support overall technical development, specifically two of the four focus areas of the SIGs, research and technical development (practice).
*Professional Development	Niche-area platform with activity at National, Regional and Chapter levels	 Increase offerings, enhance value by identifying and align content with Key places Key moments in pipeline
*Leadership Development	Current opportunities to develop and enhance leadership skills as National, Regional or chapter leaders	 Connect non-profit experiential learnings to future career options in the non-profit sector Establish formal tracking system for leadership tenure.



Go

Critical Initiative	Current Program/Activity	Suggested Changes
*Community Service	STEM career promotion activities through Special Interest Group programming	 The Professional Executive Board (PEB) and society as a whole should leverage the SIGs to promote problem-solving and diverse engagement in industry. Enhance Special Interest Group structure to now be inclusive of human rights, civic and gender equality interests Align community service activities at the National, Regional and Chapter levels. And connect to industry initiatives (corporate foundations like Intel Foundation)
*Philanthropic Development	Establishment of the Edward Barnett Jr. Endowment	 Establish an effective private donor strategy and philanthropic educational program Establishment of a Donor Pyramid that provides opportunities for members to give throughout their Professionals Journey.
*Mentorship	 No established NSBE professionals mentorship program 	Establish a formal professional mentorship program with specific, strategic matching
NSBE	RS	

Brand

Critical Initiative	Current Program/Activity	Suggested Changes
New Marketing & Promotion	 Social Networking: Facebook, Instagram, Twitter, LinkedIn, etc. Direct Marketing: eNews Promotion NSBE Websites (National, Convention & Regional Sites) 	 New engaging ways to promote: Storytelling through Video Marketing IG TV YouTube
Public & Social Policy Issues	 NSBE: A Call for Justice Partnership with other organizations 	 Quarterly Webinars with public policy SIG (engages members) Create & implement process of how to respond to social issues
Uplift and Activate NSBE Members	 Membership Campaigns WhyNSBE NSBE Grad Black STEM Like Me 	 Increase Membership Campaign Frequencies New Membership Campaigns (that highlight Strategic Plan) More Than An Engineer A Day In The Life



Grow

Critical Initiative	Revenue Lift	Professional & Technical Education
Path	 Re-imagine Career Fair Implement financial management best practices Review membership dues pricing strategy Expand individual philanthropy sources and gifts strategy Build professional services offerings 	 Develop a position paper to explore new ways to access advanced STEM content for Black students. Develop strategy, approach, and implementation plan for engaging technical, trade schools, etc. Establish relationships with target profile schools. Have NSBE leaders target engagement.
Action	Develop business/work plans to prioritize and launch revenue and growth initiatives	Develop NSBE engineering and Professional Education







K-12

- Talented & Gifted/Honors
- Competitions (Science Fair, Science Bowl, FIRST Lego, Olympiads)
- Summer Programs (JHU, NIH, MIT)
- Student Leadership

Undergrad

- Honors & scholarship
- Internships & co -ops
- Research opportunities
- Competitions & awards
- Black engineering community
- Student leadership

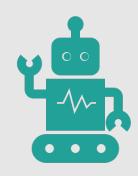
Grad

- Bridge program
- Fellowships
- Black community
- Mentorship
- Rotations
- Student leadership





- National Society of Black Engineers
- Society of Women Engineers
- Society of Hispanic Professional Engineers
- IEEE
- Women in Electrical Engineering



- FIRE
- Louis Stokes Alliances for Minority Participation (LSAMP)
- AIRICC
- SummerFirst
- EDGE



- Application Assistance (UW, MIT, CMU)
- Fee Waiver Assistance (all)
- Fellowships (Gates, EGDE, NeuroTech, SGF)



- God
- Family & friends
- Mentorship
 - Program advisors, Pls, graduate students