NSBE'S MISSION IS
"TO INCREASE
THE NUMBER OF
CULTURALLY
RESPONSIBLE
BLACK ENGINEERS
WHO EXCEL
ACADEMICALLY,
SUCCEED
PROFESSIONALLY
AND POSITIVELY
IMPACT THE
COMMUNITY."

NSBE JR MEMBERSHIP
IS AVAILABLE TO ALL
STUDENTS IN GRADES 6-12.
MEMBERSHIP IS \$5, BUT THE
LEVEL OF EXPOSURE TO
ENGINEERING IS PRICELESS.
JOIN TODAY AT NSBE.ORG





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The Ten80 Student Racing Challenge: Ten80 STEM Initiative™ is a supplemental STEM curriculum of Ten80 Education's National STEM League. Students in grades 6 – 12 form Ten80 Student Racing Challenge teams that use model (1:10 scale) radiocontrolled cars and mimic professional motorsport teams.

the fundamentals of problem solving, data and mechanical systems, they specialize in areas of personal interest,

to include project management, marketing and business. The curriculum specifically addresses Enterprise and

Data-Driven Design projects. NSBE's Ten80 STEM Initiative finals take place at the Annual Convention.

VEX Robotics Competition (VRC) is an exciting engineering challenge presented in the form of a game. Year round students, with guidance from their advisors and mentors, build innovative robots and compete year-round in a variety of matches. In addition to learning valuable engineering skills, students gain life skills such as teamwork, perseverance, communication, project

management - and critical thinking.

The VEX Robotics Competition prepares students to become future innovators: 95% of participants report an increased interest in STEM The first weeks of engagement are spent learning how systems operate and how to organize data, rather subject areas and than following "build" directions. After being "certified" in mechanical systems, data and problem solving pursuina STEMstudents spend the duration of the program year rebuilding the car with improved parts. Once students master related careers

For children aged 6-9, Junior FIRST® LEGO® League (Jr.FLL®) captures young children's curiosity and directs it toward discovering the wonders of science and technology. This program features a real-world scientific concept to be explored

Throughout the program year, adult coaches guide teams building a moving model made of LEGO® bricks to and developing a Show Me Poster to illustrate their journey. NSBE's Jr. FLL showcase takes place at the Annual Convention. Students must be a participant of an active NSBE Jr. chapter.

FIRST® LEGO® League (FLL) introduces NSBE Jr. members (aged 9-14) to real-world engineering challenges by having them build LEGO-based robots to complete tasks on a thematic playing surface.

During the course of the program year, NSBE Jr. FLL teams. guided by their imaginations and adult coaches, discover exciting career possibilities and, through the process, learn to make positive contributions to society. NSBE's FLL championship takes place at the Annual Convention.

The Math Video Challenge is an innovative program that empowers students to be math teachers, video producers, actors and artists — all at the same time! Working together in teams, students create their own videos about math problems and the concepts associated with them. Formerly known as the Reel Math Challenge, the Math Video Challenge is designed to get students excited about math while giving them the opportunity to hone their creativity and communication skills. During the year, students form teams consisting of four students each to create a video that teaches the solution to one of the problems from the MATHCOUNTS School Handbook and also demonstrates the real-

world application of the math concept used in the problem.



science behind wind and other renewable forms of energy. The widely accessible through hands-

Students dedicate their year of turbine to produce as much power takes place at the Annual

MATHCOUNTS

opportunities. During the program year, MATHCOUNTS coaches

The NSBE Jr. Explorer Technical Innovations Competition is an annual national science fair program. This program gives pre-college students the opportunity to compete in and explore the many applications of science through projects and presentations. As they follow the program calendar, participants submit their project summary and research paper for scoring. Projects and presentations are judged and scored at the national competition. Students conduct research for no more than 12 months before the national competition, which is held at NSBE's Annual Convention



FOR MORE INFO ON THESE PROGRAMS AND MORE VISIT WWW.NSBE.ORG

to foster good study habits for minority students groom them for success in STEM courses, help prepare TMAL competition is held between teams of four NSBE Jr. members Students with the top scores win prizes. Students compete year round

the national competition, which is held at