

National Instruments Investments in School, University & Community Outreach Programs

As an engineering company, National Instruments is uniquely positioned to advance engineering and science education through its own employees and resources. The company strengthens its impact by working with globally recognized and highly effective educational and nonprofit organizations. National Instruments invests in the following programs:

1. Austin Pre-freshmen Engineering Program (AusPrEP) at Huston-Tillotson University
2. Saturday Science, Technology, Engineering, and Mathematics (STEM) Program at Huston-Tillotson University
3. For Inspiration and Recognition of Science and Technology (FIRST) Robotics Program
4. Girlstart Afterschool Program
5. Educate Texas Program
6. Breakthrough Austin
7. Austin Children's Museum TechReach Program
8. Boys & Girls Club Tech Program

Austin Pre-freshman Engineering Program (AusPrEP) at Huston-Tillotson University

Austin Pre-Freshman Engineering Program (AusPrEP) and Saturday Science, Technology, Engineering, and Mathematics (STEM) Academy at Huston-Tillotson University help prepare high-achieving middle and high school students for college engineering and science studies. The AusPrEP program has provided more than 900 minority and underserved students with an eight-week summer camp focused on enhancing math, computer science, logic, and problem-solving skills. The Saturday STEM Academy is a year-round program that enrolls students in forensic science and math instruction as well as provides opportunities to engage in engineering activities through robotics and rocketry. Through financial contributions and in-kind robotics donations, National Instruments helps these programs meet their goal of preparing more minority students to pursue engineering, science, and technology studies in higher-education institutions.

Austin Pre-freshman Engineering Program (AusPrEP) is one of the Texas Pre-freshman Engineering Programs (TexPrEP) located on college campuses in Texas. PrEP was founded to identify high achieving middle and high school students with the potential and interest in becoming scientists and engineers and to reinforce them in the pursuit of these fields. TexPrEP began in 1979 at the University of Texas at San Antonio under the leadership of Dr. Manuel Berriozabal and has been recognized nationally for preparing students for college engineering and science studies.

AusPrEP will not discriminate on the basis of race, creed, sex, color, age, handicap, or national origin in selecting students for participation nor in the administration of this project. AusPrEP strongly encourages women and students from minority groups, who have been traditionally underrepresented in science and engineering, to apply for participation. Middle school students who are currently in grades sixth, seventh, or eighth are encouraged to apply for PREP year one. Students currently in the fifth grade are encouraged to apply for the Pre-Algebra Institute.

Saturday Science, Technology, Engineering, and Mathematics (STEM) Academy at Huston-Tillotson University

The classes, scheduled every other Saturday are designed to increase the knowledge of 9th through 12th grade students interested in forensic science and mathematics. In addition, students enrolled will engage in engineering activities in robotics and rocketry. . During each instructional session, there will be two (2) 75 minute class sessions where the students will be engaged in forensic science and math instruction, which will be followed by a period where the students will participate in robotics and rocketry activities. There will also be opportunities for the students to hear guest speakers in the science fields and participate in one or two field trips to companies that are based in the science field.

Courses

- Thinking Mathematically
- Forensic Science/Computer Forensics
- Project / Career Awareness Period

Total Huston-Tillotson Investment:

Cash: \$20,000 annually

In-kind: 10 LEGO Mindstorms Education Kits (hardware & software)

Number of youth served: Funding will support 225 students in 2013

FIRST (For Inspiration and Recognition of Science and Technology)

National Instruments is a strategic partner to and heavily invested in FIRST (For Inspiration and Recognition of Science and Technology), a nonprofit organization devoted to helping young people discover and develop a passion for science, technology, engineering, and math through afterschool robotics competitions. Because National Instruments believes the program has a tremendous impact on the lives of students who participate, the company has made a multimillion-dollar, multiyear commitment to provide technology and support across all levels of the program, from FIRST LEGO® League (FLL) to the FIRST Robotics Competition (FRC).

National Instruments involvement in FIRST LEGO® League (FLL) includes the following:

- Global financial sponsorship of \$100,000 USD annually
- Employees serving as team mentors and event volunteers

National Instruments involvement in FIRST Robotics Competition (FRC) includes the following:

- LabVIEW software and National Instruments CompactRIO controllers provided to all teams at a discount
- Regional financial team and event sponsorship
- Employees serving as team mentors and event volunteers and providing technical support for teams during the season

National Instruments involvement in the FIRST Tech Challenge (FTC) includes the following:

- National Instruments LabVIEW for LEGO MINDSTORMS® software donated to all teams

- Regional financial team and event sponsorship
- Employees serving as team mentors and event volunteers

In 2011, National Instruments continued its commitment to FIRST by investing in the creation of a new industry-grade controller for the FRC to make technology more accessible and affordable to students. National Instruments also reinvented the LabVIEW experience for the FTC with the release of the new LabVIEW for LEGO MINDSTORMS software, which National Instruments provided free to the 2,016 FTC teams participating in the 2012 season.

National Instruments provides financial support to the FIRST organization in addition to individual teams and competitions in addition to extensive in-kind contributions of National Instrument's hardware and software.

Participating Schools

National Instruments has approximately **115 employee mentors** for FIRST robotics programs and teams at approximately **53 schools** including Leander ISD, Round Rock ISD, Lake Travis ISD, Austin ISD, Pflugerville ISD, & Del Valle ISD.

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| • ACE Academy | • Fern Bluff Elementary | • Murchinson Middle School |
| • Akins HS | • Forest Creek Elementary | • Neysa Callison |
| • Baty Elementary | • Forest North Elementary | • Ojeda Middle School |
| • Brentwood Christian | • Gattis Elementary | • Pond Springs Elementary |
| • Brooke Elementary | • Great Oaks Elementary | • Redeemer Lutheran Elementary |
| • Cactus Ranch Elementary | • Harmony School of Excellence | • Spicewood Elementary |
| • Caldwell Heights Elementary | • Holy Family Catholic Church | • St. Dominic Savio Catholic High School |
| • Canyon Vista MS | • Kathy Caraway Elementary | • Steiner Ranch Elementary |
| • Cedar Creek Elementary | • Kelly Lane MS | • Summitt Elementary |
| • Cedar Valley MS | • Lago Vista Elementary | • UT Charter School through ACM |
| • Connally HS | • Lakeway Elementary School | • Veritas |
| • Dailey Middle School | • Laura Welch Bush Elementary | • Walsh Middle School |
| • Davis Elementary | • Laurel Mountain Elementary | • Westlake HS |
| • Deepwood Elementary | • Murchinson Elementary | • Windermere Elementary |
| • Deerpark MS | | |
| • Del Valle MS | | |
| • Dessau Middle School | | |
| • Doss Elementary | | |
| • Eastside Memorial | | |

Total Annual FIRST Investment:

Cash: \$25K annually to Skillpoint Alliance, local FIRST affiliate, 10K sponsorship of Alamo regional event which serves Austin area teams, \$6K sponsorship of Austin offseason event, \$25,000 in sponsorship directly to FIRST Robotics teams

In-kind: National Instruments provides training for FLL and FTC participants, coaches and mentors through Skillpoint Alliance and the Alamo Regional

Employee Volunteers: Average of 120 employees

Leadership involvement: Ray Almgren serves on National FIRST Advisory Board and as Chair of FIRST in Texas Board of Directors, Stacy Schmitt serves on Board of Directors for FIRST in Texas. In addition National Instruments has two to four employees on the local FLL & FTC Central Texas Steering Committee each year.

Number of youth served: 200+ local students

GirlStart

GirlStart's mission is to increase girls' interest in science, technology, engineering and mathematics (STEM) through nationally recognized informal education programs. While research consistently shows that low-income and minority girls are least likely to pursue engineering and science careers, engaging them with unique programs like the organization's Girls in STEM Conference, summer camps, and afterschool workshops increases their interest and reduces the gender stereotypes and biases associated with STEM pursuits. For the past several years, National Instruments has supported GirlStart through financial donations towards its annual Girls in STEM conference.

The Girls in STEM Conference is held each spring on the UT Austin campus. It is a one-day program that provides 4th-8th grade girls with hands-on learning experiences in STEM and introduces girls to STEM careers. The workshops are facilitated by professional women with inspiring careers in STEM fields. Each presenter leads girls in a hands-on activity related to their career and shares information about their career with participants.

National Instruments provides funding for Girlstart afterschool programs to support 20+ girls each week at 10 Austin ISD elementary schools. These are hands-on, informal STEM programs aligned with state and national standards. These programs also include parent association meetings to teach parents about STEM and the importance of pursuing STEM careers. The GirlStart summer camps, which target 4th-8th grade girls, increased to 14 camps last summer with each camp including 15-20 girls.

Annual Investment:

Cash: \$5,000

In-kind: National Instruments has provided GirlStart with donations of the LEGO MINDSTORMS software and approximately 30 LEGO WeDo Kits (hardware & software)

Employee Volunteers: Average of 20 employees

Leadership involvement: Arleene Porterfield, vice president of Global Information Technology at National Instruments, shares her expertise by serving on the GirlStart Board of Directors.

Number of youth served: 400+

Educate Texas

As part of a multiyear commitment to improve education in Texas, National Instruments pledged financial and in-kind support in 2006 to jump-start the Texas Science, Technology, Engineering, and Mathematics (T-STEM) initiative of the Educate Texas project, a public-private alliance dedicated to improving postsecondary performance at low-income, low-performing schools across the state. Since its inception, Educate Texas has launched 44 early college high schools, 51 T-STEM academies, and seven T-STEM centers supporting more than 2,700 teachers across Texas. In 2011, Educate Texas served more than 84,000 students. There was a radical improvement in the standardized test scores for these students over peer schools. National Instruments continues to support Educate Texas with funding and

product donations as the organization works to scale the success of the T-STEM program into a statewide STEM education initiative.

Breakthrough Austin

Breakthrough Austin provides a path to college for low-income students who will be first-generation college graduates. The organization's leaders believe that by offering innovative educational programs to children and their families, they can permanently break the poverty cycle in their lives. National Instruments helps Breakthrough Austin through financial donations used to support math and science curriculum development for the organization's annual summer camps. In addition to financial support, National Instruments employees lead a one-day robotics competition that introduces the students to programming basics.

Total Annual Investment:

Cash: \$10,000

Employee Volunteers: Employee led Robotics Competition Day, 5-10 volunteers

Number of youth served: 360 middle school-aged youth, 72 high school and college students

Austin Children's Museum

The Austin Children's Museum (ACM) creates innovative learning experiences for children that equip and inspire them to be the next generation of creative problem solvers. The ACM program, TechReach, provides students from low-income families with opportunities to gain hands-on science, technology, engineering, and math skills. Working with LEGO MINDSTORMS NXT kits, participants learn the basics of designing, building, and programming robots. The TechReach program addresses a three-fold problem for economically disadvantaged children in Austin: shortage of access to technology, the need to build 21st century skills, and the lack of interest and awareness in a science-related future. By providing financial contributions and engineering mentors to the TechReach program, National Instruments supports the museum's efforts to fill this critical gap. John Graff, vice president of Americas Sales and Marketing at National Instruments, shares his leadership skills with ACM by serving on its board of directors.

Total Annual Investment:

Cash: \$25K for TechReach program

In-kind: NI provides facilities for its robotics summer camp, 15 LEGO Mindstorms Education kits (hardware & software), and three LEGO Mindstorms Retail kits

Employee Volunteers: Average of 20 employees

Leadership involvement: NI Vice President John Graff on the Board of Directors

Number of youth served: 150 low-income children in Title 1 Schools

Boys & Girls Club Tech Program -- HOT (Hands On Technology) Spot

Boys and Girls Club of the Austin Area is a youth development organization operating 17 clubs in communities and schools throughout the city. Every day, 1,700 kids ages 6-18 walk through the doors to find a safe haven, fun activities, and relationships. The target demographic comes from Austin's most distressed neighborhoods, where 80% of the kids live below the poverty line. The kids who attend the clubs comprise of a diverse group, with the majority coming from African American and Hispanic families. HOT Spot is a total tech immersion project, integrated with Boys & Girls Club national

technology initiative, Club Tech, designed to integrate technology into every aspect of a Club's operation. The program empowers kids to build a 21st century skill set that inspires them and ensures they develop skill needed to succeed in school and life.

National Instruments began funding The Boys & Girls Club in Austin in 2010. In 2013, with National Instruments support, the Boys & Girls Club will have their first FIRST Robotics Team competing. National Instruments also hopes to provide one-time robotics workshops.

Total Annual Investment:

Cash: \$10, 000

Number of youth served: HOT Spot program serves 2,200 children in Austin.

Note: This chart shows AUSTIN investment

Program	2008	2009	2010	2011	2012	2013
Huston-Tillotson AusPrEP and STEM Saturday			10,000	20,000	20,000	
FIRST Robotics			50,000	50,000	56,000	
GirlStart	5,000	5,000	5,000	5,000	5,000	
Breakthrough Austin	10,000	10,000	10,000	10,000	10,000	
Austin Children's Museum	25,000	25,000	25,000	75,000	75,000	
Boys & Girls Club Tech Program				10,000	10,000	
Total	40,000	40,000	100,000	170,000	176,000	

Total number of youth served through the programs is approximately 3,535 Central Texas youth.