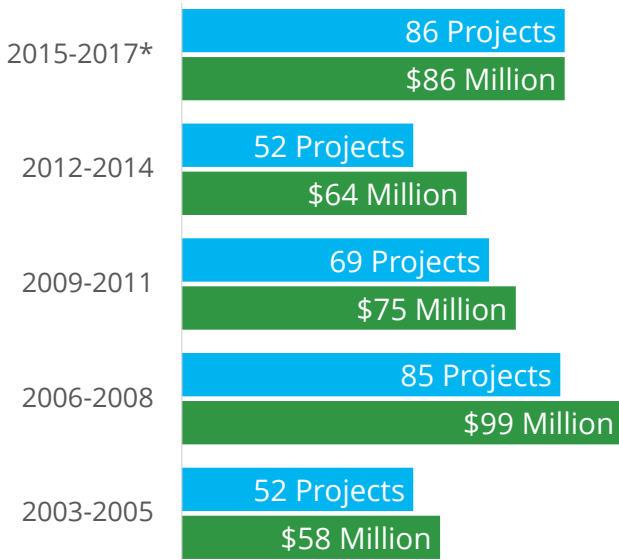


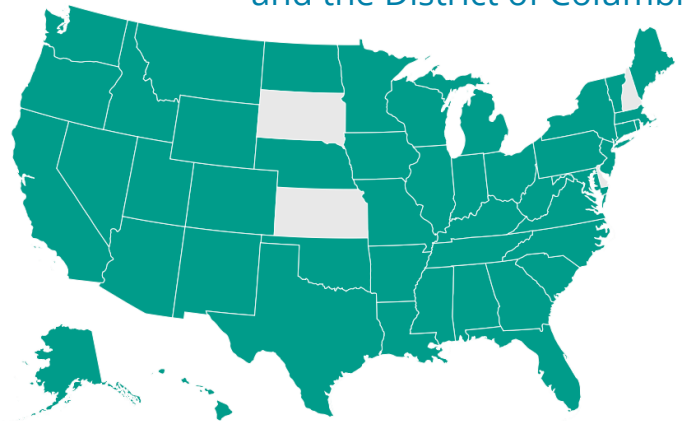
The **Innovative Technology Experiences for Students and Teachers (ITEST)** program was established in 2003 by the National Science Foundation (NSF) to address the shortage of technology workers in the U.S.

Since 2003, NSF has invested **\$382 MILLION** in more than **344** ITEST projects^a



Funding for the ITEST program is provided by revenue from the **H-1B visa program**, which permits overseas workers to fill vacant U.S. engineering, science or mathematics positions.

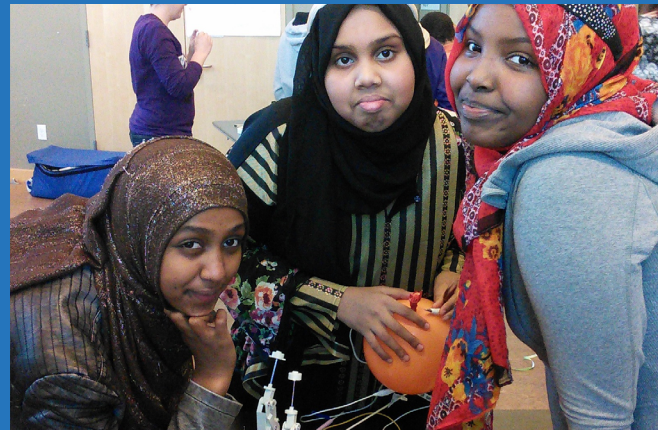
...and has awarded funding to organizations located in **46 STATES** and the District of Columbia



As of 2016, the ITEST program has reached:

566,500 youth
16,900 educators
6,800 parents & caregivers

The ITEST program seeks to enrich the formal and informal learning experiences of PreK-12 students by supporting projects that:



ITEST Project STUDIO: Build Our World

Increase awareness

of STEM and ICT careers

Motivate students

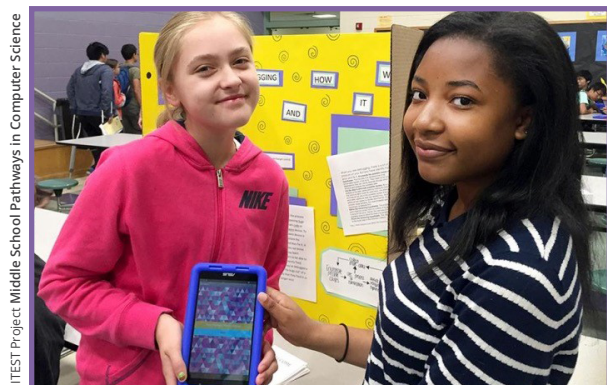
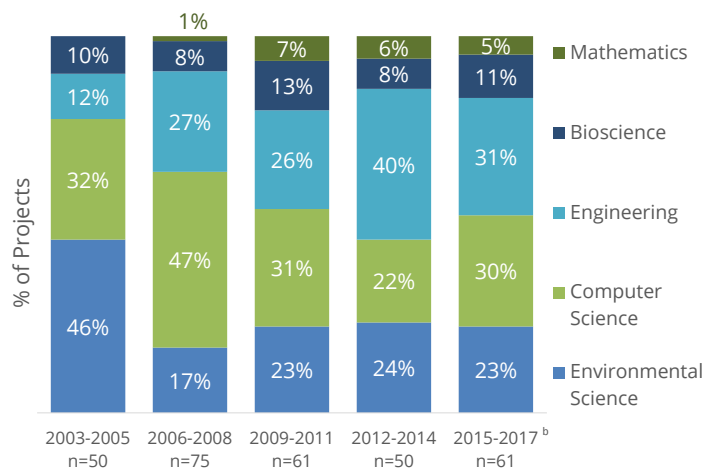
to pursue the education necessary to participate in those careers

Provide students with technology-rich experiences

that develop their knowledge of related content and skills (including critical thinking skills) needed for entering the STEM workforce



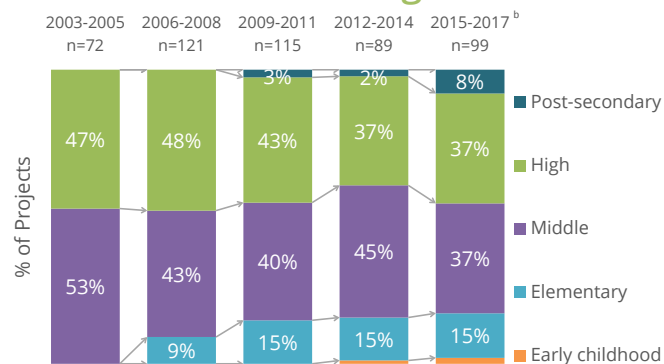
Since 2003, ITEST participants have engaged in activities across a variety of **STEM disciplines**



ITEST youth and educators learn to use **cutting-edge technologies**

- Visualization/computer modeling
- Multi-media authoring
- Game development
- Simulations & virtual reality
- Geospatial technologies
- Imaging technologies
- Wearable technologies
- Energy monitoring devices
- Mobile air quality detection systems

Projects span grades PreK -12 but most work with **middle or high school**



Broadening Participation:

NSF's mission calls for broadening the participation of groups, institutions, and geographic regions that are underrepresented in STEM disciplines - which is essential to the health and vitality of science and engineering.

The ITEST community is comprised of more than **230 unique institutions and partners** including:

- 2 and 4 year colleges & universities
- informal science education organizations
- PreK, Elementary, Middle and High Schools
- Community-based organizations

34% of College & University partners are **Minority Serving Institutions**

Of the participants served directly by ITEST projects:

38% of youth are from racial groups underrepresented in STEM

These groups represented 29% of the total US adult population, but only 13% of the science and engineering workforce in 2013.^c

56% of ITEST projects specifically target girls

Women comprised only 29% of science and engineering workers, although they accounted for half of the overall college-educated workforce in 2013.^c

Sources and references:

- "Projects" are defined as all awards under a project title - collaborative awards are counted as a single project
- Includes projects awarded funding in 2017 under NSF Solicitation 15-599
- National Science Board, *Science and Engineering Indicators 2016*

Data for this report was derived from:

- NSF report of all ITEST awards
- Management Information System (MIS) survey data from 2016 (n=81)
- Longitudinal MIS survey data from 2003-2016 (n=340)
- Newly awarded project survey data (n=34)
- NSF Solicitation 15-599