ITEST SURVEY

2024 Data Snapshot

ITEST (Innovative Technology Experiences for Students and Teachers) is an applied research and development program with goals to advance the equitable and inclusive integration of technology in the learning and teaching of science, technology, engineering, or mathematics (STEM) and information and communication technologies (ICT) workforce education for students in pre-kindergarten through high school.

\$49M

ITEST FUNDING

In fiscal year 2024, ITEST received \$49 million in funding.

261

ITEST PROJECTS

In fiscal year 2024, 261 projects were fully or partially funded by the ITEST program.

1.74M+

YOUTH

ITEST provides youth with high-quality STEM learning experiences. Since 2003, ITEST projects have served more than 1.74 million students.

67K+

EDUCATORS

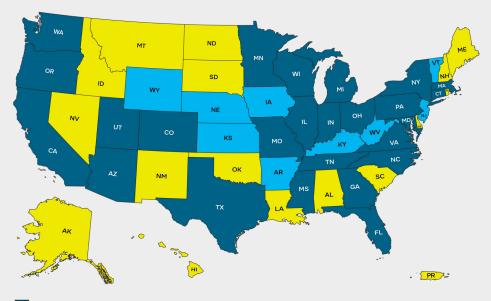
Educators are key to the success of any ITEST project. ITEST projects have served more than 67,189 educators since 2003.

23K+

PARENTS/ CAREGIVERS

ITEST projects have served 23,872+ parents and caregivers, who support at-home learning since 2003.

Active ITEST Awards by U.S. state/ U.S. territory and EPSCoR jurisdiction^{1, 2}



U.S. states/U.S. territories with active ITEST awards

ESPCoR jurisdictions with active ITEST awards

U.S. states/U.S. territories with no current active ITEST awards

ITEST projects
engage youth,
educators, and parents
and caregivers in both
formal and informal
learning environments
in communities across
the U.S. and in U.S.
territories.



Did you know?

ITEST is the only National Science Foundation (NSF) program focused on pre-K–12 STEM and ICT career pathways





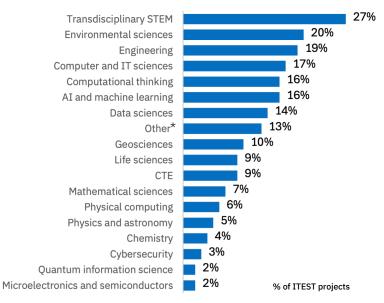


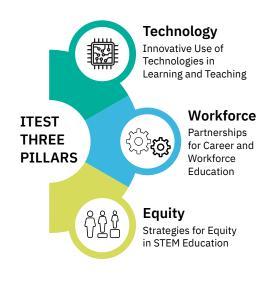


STEM Disciplines

The ITEST program's objective is to support all students' acquisition of foundational preparation in STEM disciplines and ICT career fields.

STEM Disciplinary/ICT Career Focus of ITEST Projects³





ITEST youth and educators engage in **technology-rich activities** and career-based learning experiences.

- Visualization/3D modeling
- · Game development
- Geospatial technologies
- · Robotics and wearable technologies
- Energy monitoring devices
- · Mobile air quality detection systems
- · Data mining and machine learning
- Assistive and accessibility technologies
- Artificial intelligence and immersive technologies



Strategic Partnerships

ITEST projects establish and sustain **strategic partnerships** to provide youth with greater access to high-quality pre-K-12 STEM learning experiences.

ITEST projects' community partners include museums and museum educators, libraries and librarians, science centers, afterschool programs, summer camps, and nonprofit organizations.



78%

Schools and school districts



59%

College and university (4 year)



56%

Community members or organizations



51%

Business and industry members or organizations

General STEM education and STEM careers, learning sciences, Indigenous science, art, and design



51%

ITEST grantees reported over 51% of their projects took place in a rural setting. 40% of the projects report their research and development activities took place in EPSCoR jurisdictions.

67%

ITEST grantees reported 67% of their projects were designed specifically to serve students from families with low incomes.



Impact and Dissemination

ITEST projects study the **impact** of their work on **youth** in the following areas:

- · Engagement or interest in STEM
- Awareness, knowledge, or understanding of STEM
- · Attitudes toward STEM
- · Skills based on STEM
- · Behavior related to STEM



Over the past two years (August 2022–September 2024), 66 ITEST projects reported they gave **258** presentations on their ITEST research and development at a total of **127** different national, international, and regional conferences.



27 ITEST projects shared **56 publications** authored by their project over the past two years.

^{1.} ITEST awards that are active as of July 2024

^{2.} EPSCoR is the Established Program to Stimulate Competitive Research at NSF. EPSCoR jurisdictions in U.S. states: AL, AK, AR, DE, HI, ID, IA, KS, KY, LA, ME, MS, MT, NE, NV, NH, NM, ND, OK, RI, SC, SD, VT, WV, WY. EPSCoR jurisdictions in U.S. territories: Guam (GU), Puerto Rico (PR), U.S. Virgin Islands (VI). For more information, see https://new.nsf.gov/funding/initiatives/epscor

^{3.} Data sources for this Snapshot include the NSF.gov Awards Database and data from the Annual ITEST Data & Support Survey administered in summer 2024 and completed by 73 projects.