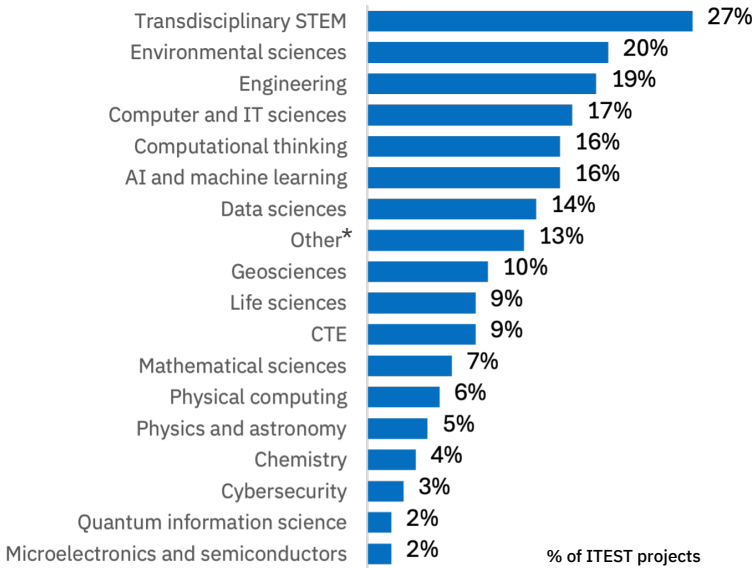




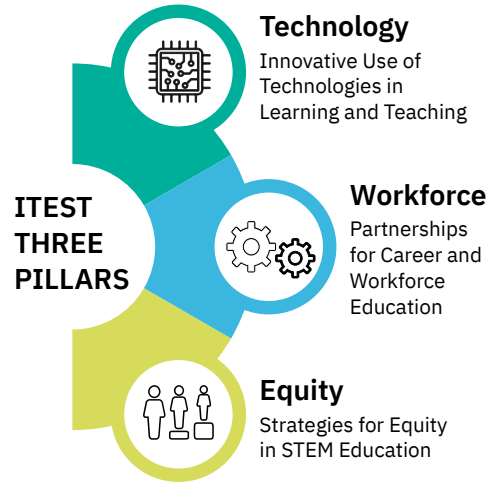
STEM Disciplines

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



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



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)



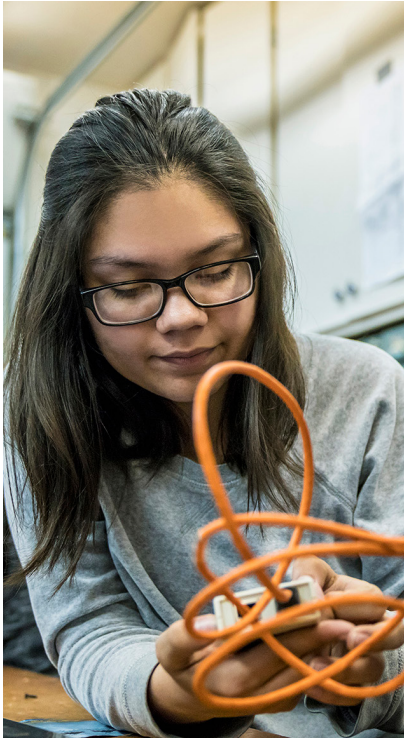
56%
Community members or organizations



51%
Business and industry members or organizations



Youth Participation



90%

In 2024, 90% of the ITEST projects reported that their project directly engages youth. Those benefiting from ITEST activities are from a variety of backgrounds, including youth with disabilities and youth from from families with low incomes.

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.