

STEM Education Evaluation Center Projects - Closed

- [2012 MSP LNC Evaluation](#) —

Principal Investigator: James (Jim) Hammerman

Funders: [National Science Foundation](#) and [University of Nebraska](#)

Website: <http://evaluation.terc.edu>

TERC's Evaluation Group is conducting the evaluation for The Math and Science Partnership (MSP) program's annual Learning Network Conference (LNC), which brings together teams of STEM faculty, education faculty.. [More »](#)

- [Accessing Science Ideas](#) —

Principal Investigator: [Karen Mutch-Jones](#) and [Gilly Puttick](#)

Funders: [National Science Foundation](#)

The Accessing Science Ideas (ASI) project developed and researched content enhancements that support science learning of middle school students with executive function learning disabilities. [More »](#)

- [BioTeach Evaluation](#) —

Principal Investigator: [James \(Jim\) Hammerman](#), [Polly Hubbard](#), and [Karen Mutch-Jones](#)

Funders: [Massachusetts Biotechnology Education Foundation](#) and [US Department of Labor](#)

ERC designed and implemented a multi-year evaluation study for the BioTeach Program of MassBioEd. BioTeach provided biotechnology lab materials and professional development supports to high school teachers across Massachusetts. [More »](#)

- [CLiPSE Evaluation](#) —

Principal Investigator: [James \(Jim\) Hammerman](#)

Funders: [National Science Foundation](#) and [Mississippi State University](#)

Website: <http://evaluation.terc.edu/>

The Climate Literacy Partnership in the Southeast (CLIPSE) is a Phase I NSF-CCEP project whose goal is to create and build a network of partners to conduct climate literacy education across the southeast US region [More »](#)

- [Connecticut MSP Program Evaluation](#) —

Principal Investigator: [Karen Mutch-Jones](#)

Funders: [Connecticut State Department of Education](#)

Connecticut MSP Program Evaluation The Connecticut Math Science Partnership (MSP) program supports relationships between local education agencies and institutions of higher education that will improve professional practice, raise student achievement, and promote a comprehensive PK-16 education reform initiative. [More »](#)

- [Contribution of Science Fair to Middle School Student Interest in Science Careers](#) —

Principal Investigator: [Polly Hubbard](#)

Funders: [The Noyce Foundation](#)

Website: <http://www.massscifair.com/>

This exploratory study will examine the effects of participation in Science Fair - a voluntary scientific investigation program available to middle and high school students - on students' interest in, self-efficacy, and future plans in science. [More »](#)

- [Data Games Evaluation](#) —

Principal Investigator: [James \(Jim\) Hammerman](#)

Funders: [KCP Technologies](#) and the [National Science Foundation](#)

Website: <http://www.kcptech.com/>

Students playing computer games generate large quantities of rich, interesting, highly variable data that mostly evaporates into the ether when the game ends. What if in a classroom setting, data from games students played remained accessible to them for analysis? [More »](#)

- [DIGITS Evaluation](#) —

Principal Investigator: [Judith \(Judy\) Storeygard](#)

Funders:

Website: <http://www.digits.us.com/>

TERC is the evaluator for DIGITS program, a program that introduces sixth grade students to a corps of STEM professionals - called STEM Ambassadors - who work in science and technology-based careers; are enthusiastic about their jobs; and are interested in interacting with students. [More »](#)

- [Educating About Statistical Issues Using Large Scientific Data Sets](#) —

Principal Investigator: [James \(Jim\) Hammerman](#)

Funders: [National Science Foundation](#)

The project builds on the increasing availability of a variety of large data sets, and on students' inherent interest in data sets related to "hot" topics such as the environment and climate change, the human genome, economic justice issues, space exploration, and medical research. [More »](#)

- [Educating Business Students as Partners in Scientific Innovation: Presage Factors](#) —

Principal Investigator: [Karen Mutch-Jones](#)

Funders:

The effective management of science and technology industries requires individuals with interdisciplinary knowledge of both science and business. [More »](#)

- [Equity Achievement Analysis](#) —

Principal Investigator: [James \(Jim\) Hammerman](#)

Funders:

TERC worked with the Berkshire Hills Regional School District to analyze data about student achievement differences based on gender, socioeconomic class, and special education status. [More »](#)

- [Evaluation of the National Biotechnology Teacher-Leader Program](#) —

Principal Investigator: [Karen Mutch-Jones](#)

Funders: [Biotechnology Institute](#) and [Merck](#)

TERC will evaluate the impact of a summer teacher-leader program on participants' classroom practice and outreach training of other educators. [More »](#)

- [Excellence in Estuaries Education](#) —

Principal Investigator: [Dan Barstow](#) and [James \(Jim\) Hammerman](#)

Funders: [National Oceanic and Atmospheric Administration](#)

The [National Estuarine Research Reserve System \(NERRS\)](#) contracted with TERC to conduct a nationwide needs assessment of K-12 teachers to review science education standards and to develop a series of high school science curriculum modules related to estuaries. [More »](#)

- [Excellence in Secondary Science Teaching Evaluation](#) —

Principal Investigator: [Lindsay Demers](#)

Funders: [Rice University](#)

Website: <http://sst.rice.edu/>

TERC is evaluating the Rice Excellence Secondary Science Teaching (RESST) program, which provides secondary school teachers with professional development in physics and chemistry, augmented with current research topics in nanotechnology, biotechnology, and environmental engineering. [More »](#)

- [Geniverse Evaluation](#) —

Principal Investigator: [Karen Mutch-Jones](#)

Funders: [National Science Foundation](#)

The Geniverse project is determining the feasibility of engaging students in experimentally-oriented bioinformatics and DNA science cyberlearning modules. [More »](#)

- [GO College Project Evaluation](#) —

Principal Investigators: [Karen Mutch-Jones](#) and [Jim Hammerman](#)

Funders:

Website: <http://www.coenet.us/>

TERC is evaluating The Gaining Options for College Collaborative (GO College), a national Council for Opportunity in Education data-driven initiative that brings communities together to increase college access and success for low-income, first-generation, and minority students. [More »](#)

- [Helios STEM School Pilot](#) —
Principal Investigators: [Karen Mutch-Jones](#)
Funder: Helios Foundation
Website: <http://www.sfaz.org/helios-stem-school-pilot/>

The Helios STEM School Pilot is a joint initiative of the Science Foundation Arizona and the Helios Education Foundation to help the Arizona STEM Network improve student achievement in STEM fields. [More »](#)

- [Life on Earth Evaluation](#) —
Principal Investigator: [James \(Jim\) Hammerman](#)
Funders: [National Science Foundation](#)
Website: <http://evaluation.terc.edu/>

Life on Earth is a project funded by the NSF-ISE through Harvard University, the University of Nebraska-Lincoln, and the University of Michigan, to develop multi-touch, multi-user touch-table digital exhibit technologies and materials for use in science museums to enhance visitor understanding of evolution - specifically, the tree of life, common descent, and natural selection. [More »](#)

- [Massachusetts State Science and Engineering Fair Evaluation Planning](#) —
Principal Investigator: [Judith \(Judy\) Storeygard](#)
Funders:
Website: <http://www.massscifair.com/>

TERC is providing consulting services to help plan an evaluation of the professional development courses and the development of facilitator training for the Massachusetts State Science and Engineering Fair. [More »](#)

- [NEAGEP Evaluation: Identifying Effective Strategies for Paving the Pathway to the Professoriate](#) —
Principal Investigator: [Maria \(Mia\) Ong](#)
Funders: [National Science Foundation](#) and the [University of Massachusetts](#)
Website: <http://www.neagep.org/>

TERC's Evaluation Group is conducting a NEAGEP (The Northeast Alliance for Graduate Education and the Professoriate)-wide summative evaluation to identify what factors influence the recruitment, retention, career choices, and success of underrepresented minority (URM) students in STEM Ph.D programs across ten institutions in the Northeast. [More »](#)

- [Perceived Impact of Science Fair Participation on Scientists' and Engineers' Interest in Science](#) —
Principal Investigator: [Polly Hubbard](#)
Funders: [The Noyce Foundation](#)
Website: <http://www.massscifair.com/>

This study will examine the effect of Massachusetts Science Fair experiences on a proposed sample of scientists and engineers who hold degrees in the natural sciences. [More »](#)

- [Transition to Algebra Evaluation](#) —
Principal Investigator: [James \(Jim\) Hammerman](#)
Funders: [National Science Foundation](#)
Website: <http://ttalgebra.edc.org/>

EDC is developing and testing innovative curriculum materials for double-period algebra classes to support learners at risk of failing regular 9th grade algebra. [More »](#)

- [Vanished: A Curated Game Evaluation](#) —
Principal Investigator: [James \(Jim\) Hammerman](#)
Funders: [National Science Foundation](#)

MIT Education Arcade, in partnership with the Smithsonian Institution, will design and develop *Vanished*, an eight-week environmental science game proposed as a new genre called the curated game, a hybrid of museum-going, social networking, and online gaming. [More »](#)