Evaluation

The following list includes all active projects.

You may also access past projects.

**Adopting Research-based Instructional Strategies for Enhancing STEM Education (ARISE)** —

- **Principal Investigator:** Jim Hammerman
- **Funders:** The National Science Foundation
- **Website:** http://arise.unl.edu/

The goal of the ARISE project is to support faculty to use research-based instructional strategies (RBISs) to improve how STEM courses are taught and evaluated at the University of Nebraska ... More »

**All Included in Mathematics–Expansion and Dissemination (AIM-ED)** —

- **Principal Investigators:** Jim Hammerman and Judy Storeygard
- **Funders:** The National Science Foundation
- **Website:** http://www.horizon-research.com/project-aim-all-included-in-mathematics/

SEEC evaluators are collaborating with the Project AIM team to conduct a quasi-experimental analysis of its impact on teacher and student learning ... More »

**Creating a Virtual Infrastructure for Engaging Rural Youth in STEM Disciplines** —

- **Principal Investigator:** Jim Hammerman
- **Funders:** The National Science Foundation
- **Website:** http://www.thoughtstem.com/home/programs

This project builds on Network Maine's extensive infrastructure, and its partnership with ThoughtSTEM, to develop and provide STEM and computer science learning opportunities ... More »

**Creative Robotics** —

- **Principal Investigators:** Debra Bernstein and Karen Mutch-Jones
- **Funders:** The National Science Foundation

To increase opportunities for more students to engage in technology innovation, the Creative Robotics project supports robotics integration into disciplinary classrooms. More »

**EcoXPT (Learning about Ecosystems Science and Complex Causality through Experimentation in a Virtual World)** —

- **Principal Investigator:** Jim Hammerman
- **Funders:** The National Science Foundation
- **Website:** http://ecolearn.gse.harvard.edu/ecoXPT/overview.php

This project builds on an existing multi-user virtual environment (EcoMUVE) to explore how various forms of experiment-based inquiry can support student reasoning about complex causality in the context of ecosystem science. More »

**EcoXPT Evaluation** —

- **Principal Investigator:** Jim Hammerman
- **Funders:** Harvard University

Harvard is extending their middle grades EcoMUVE (Multi-User Virtual Environment) software by adding features for conducting small experiments to test hypotheses about the environmental phenomena observed in the MUVE. More »

**Evaluating DMI** —

- **Principal Investigator:** Jim Hammerman
- **Funders:** The National Science Foundation
- **Website:** http://mathleadership.org/about/summer-institutes/developing-mathematical-ideas-institute/

Developing Mathematical Ideas (DMI) is a widely-used elementary and middle grades (K–8) mathematics teacher professional development curriculum based on well-established principles of effective programs. More »

**GeniGUIDE** —
The goal of the GeniGUIDE project is to improve student learning of genetics content by developing and researching a layered learner guidance system that aids students ... More »

GrACE —

Principal Investigator: Jim Hammerman
Funders: The National Science Foundation
Website: http://www.northeastern.edu/games/grace/

GrACE, named after the pioneering computer scientist Grace Hopper, is an educational puzzle game for middle school students intended to teach algorithmic thinking in an after school context. More »

High Adventure Science Evaluation —

Principal Investigator: Karen Mutch-Jones
Funders: National Science Foundation
Website: http://has.concord.org

SEEC is evaluating the newest curricular units and computer-based investigations being developed for The Concord Consortium's High-Adventure Science's Earth Systems and Sustainability (ESS) extension. More »

I-ECS: Inclusive Exploring CS Curriculum Enhancement as Face-to-Face and Online Support —

Principal Investigator: Karen Mutch-Jones and Debra Bernstein
Funders: The National Science Foundation
Website: I-ECS

iECS seeks to broaden participation in computing by increasing access for students with visual impairments. More »

Indiana Science Initiative (ISI) —

Principal Investigator: Karen Mutch-Jones
Funders: Lilly Foundation

The goal of this project is to systemically reform K-8 science education in Indiana through teacher professional development. SEEC’s summative evaluation of this program ... More »

LOCUS (Levels of Conceptual Understanding in Statistics) Evaluation —

Principal Investigator: Jim Hammerman
Funders: The National Science Foundation and the University of Florida
Website: https://locus-statisticseducation.org

SEEC will serve as evaluators for the LOCUS project. More »