



A Signature Program of the University of Colorado at Boulder and an NSF I³ Program

Integrating STEM Education at Colorado (iSTEM) integrates **over 35 programs in STEM** education representing over **\$15 million** in grants at CU Boulder, including:

- **CU Teach** – a nationally leading program bringing STEM students to teaching and offering a specialized secondary science and math teacher certification program for STEM majors.
- **Learning Assistant / Noyce Programs** – couples the transformation of undergraduate courses with the recruitment and preparation of future teachers in STEM.
- **The Science Education Initiative**- led by Nobel Laureate Carl Wieman, this initiative seeks to transform undergraduate education in 5 different departments on campus.
- **NSF Grants** in Physics, Chemistry, Biology, Math, etc. to transform classes. These have been used to introduce student centered research based approaches classes.
- **Physics & Discipline-Based Education Research Groups (PER & DBER)** - One of the largest and best recognized PER research groups in the nation. DBER spans more than 10 departments, meets weekly to support faculty staff & students in educational research.
- **Science Discovery**- offers experience-based education for k12 students and teachers in Colorado, reaching thousands of students across the state.

iSTEM at CU Boulder integrates existing efforts and supports new efforts in science, technology, engineering and math (STEM) education. We are:

- Building the STEM education research community at CU Boulder
- Increasing the number and quality of K20 STEM Educators
- Transforming STEM education at CU Boulder

We seek to establish CU as a national hub of STEM education and ultimately establish a Center or Institute for STEM education.

Successes and National Recognition:

- **President Obama** cites programs like **CU Teach** as national models for teacher preparation to address the challenges in teacher and workforce preparation.
- CU hosted the Association of Public and Landgrant Universities (APLU) **Science and Math Teacher Imperative's** inaugural conference; CU recognized as a **national leader**.
- **ISEC Contributes to Statewide Initiatives**, including revising the state standards in mathematics and science, and leading roles in Race to the Top/ ARRA application.

PI: Chancellor Phil DiStefano

Co-PIs: Assoc. Dean Argrow, Dean Gleeson, Dean Shepard, Professor Finkelstein

Project Management Team: Valerie Otero, School of Education; Eric Stade, Chair, Mathematics; Mike Klymkowsky, MCD Biology; Derek Reamon, Mech. Engineering; Daria Kotys-Schwartz, Mech. Engineering; Noah Finkelstein, Physics; Jordan Brown, Administrator.

Support excellence at CU by donating to Integrating STEM Education. Please contact Margot Neufeld at Margot.Neufeld@cufund.org or Pat Sullivan at Pat.Sullivan@cufund.org.

Committed to Excellence in STEM Education
www.Colorado.edu/ScienceEducation/