

Integrating STEM Education (iSTEM) at CU Boulder works to improve STEM education through course transformation, discipline-based education research, and teacher recruitment and professional development.

We are establishing a **Center for STEM Education** at CU-Boulder to integrate an interdisciplinary community of scholars, promote and sustain existing efforts, sponsor new programs, advocate for diversity and access, influence policy, and raise needed funds.

More than 40 Programs Involved

iSTEM integrates over 40 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, 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 & Engineering to transform classes. These have been used to introduce student-centered research-based approaches in these 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.
- Integrated Teaching and Learning Program & Lab - a nationally-recognized, hands-on, engineering program for CU Students and Faculty and K12 students and teachers.

Increasing National Recognition

- President Obama cites programs like CU Teach as national models for teacher preparation to address the challenges in teacher and workforce preparation.
- PI/ Chancellor Philip DiStefano was invited to the White House in honor of the university's commitment to STEM education.
- Bruce Alberts, editor-in-chief of *Science*, says, "I view the University of Colorado at Boulder as the national leader in driving improvements in STEM education..."

PI: Chancellor Phil DiStefano

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

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Committed to Educational Excellence for Colorado!

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