



Center for STEM Learning

UNIVERSITY OF COLORADO **BOULDER**

International leader in
transformative STEM
education research

The purpose (mission) of the CU-Boulder Center for STEM Learning (CSL) is:

To improve science, technology, engineering, and mathematics (STEM) learning at the University of Colorado Boulder, and to serve as a state, national, and international resource for such efforts.

Our vision for achieving this mission is:

- To maintain an infrastructure of institutional support to transform STEM education, support education research within STEM fields and departments, and promote K20 faculty recruitment, preparation, and professional development.
- To facilitate change in STEM education by integrating an interdisciplinary community of scholars, promoting, sustaining, and evaluating existing reform efforts, sponsoring new programs, advocating for diversity and access, influencing relevant policy, fundraising, and communicating with the public.

More than 95 Programs Involved

CSL Brings together more than 95 programs in STEM education, representing tens of millions of dollars in grants at CU-Boulder, including:

- CU Teach
- Learning Assistant / Noyce Programs
- The Science Education Initiative
- Physics & Discipline-Based Education Research Groups (PER & DBER)
- Integrated Teaching and Learning Program & Lab

Strategic Approach

- Individual and Institutional Capacity Building
- A Local, State and National Resource
- Advancement of Educational Research in STEM
- Awards for Excellence in STEM Education
- CSL Annual Symposium on STEM Education
- Workshops/Conferences
- Grant Support (CSL currently hosts and manages more than 50 projects at roughly \$2+ million per year)
- Partnerships with Local and State Industries
- Development of CU's Reputation as a National Leader of STEM Education
- A Resource for Existing and New Campus Models

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.
- 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..."
- Because CU is a national leader in teacher recruitment and preparation, CU hosted the Association for Public and Land-Grant Universities (APLU) Science and Math Teacher

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