

Industry Collaboration:
A **BOULDER** APPROACH
TO **INDUSTRY**

Be Boulder.



University of Colorado **Boulder**



The University of Colorado Boulder is one of the nation's leading research universities with world-class research personnel and capabilities. Connecting local, national and international companies to the right people and capabilities is the objective of CU-Boulder's Office of Industry Collaboration (OIC). We are here to help you navigate the campus whether you are seeking an academic partner or new hires, developing employee education and training opportunities, cultivating new product ideas, or generating ways to promote your business to future employees and customers.

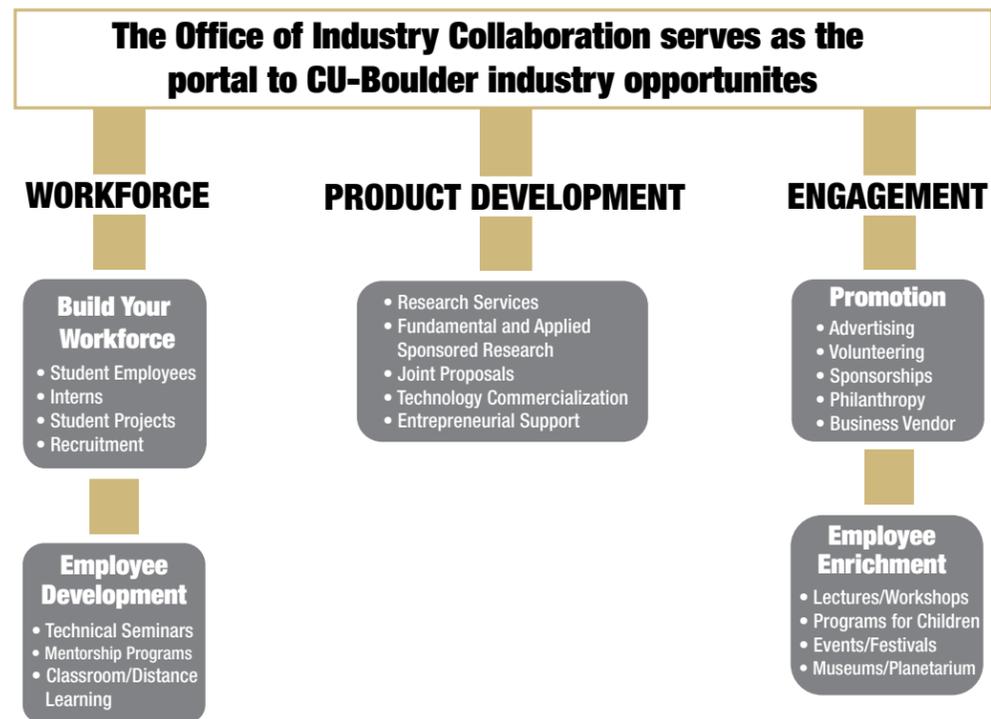
This brochure provides an overview of the various ways that CU-Boulder can support your business needs. Need guidance or support in getting started? Contact either the Office of Industry Collaboration or the specific group within CU-Boulder that will address your needs based on the contact information available on our website. After a successful first connection, we want to make a second connection, then a third and so on. The better we understand your goals, the better we can position the broad resources of the CU-Boulder community to support your company's growth and development. We're excited to explore potential opportunities with you.

CAROLINE HIMES, Director of Office of Industry Collaboration

"Our new Office of Industry Collaboration shares the expertise of our faculty and helps businesses generate new products, new technologies and new economic growth."

—Phil DiStefano, Chancellor

Cover photo: CU-Boulder campus and the iconic Boulder Flatirons.



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Building Your Workforce

Both current students and graduates make great employees for a wide range of jobs. CU-Boulder offers a variety of common employment relationships available to your company.

STUDENT EMPLOYEES

Looking to hire student workers? Employ university students as they work during their academic career. Post job openings on CU-Boulder's searchable human resources website and Career Buffs system to advertise to undergraduate, graduate and doctoral students.

INTERNS

Internships provide benefits to both students and companies. Interns receive academic credit and/or experience in their field of study. Companies gain fresh perspectives, cutting edge theory, and interaction with potential employees and their faculty advisors. Post internship opportunities through Career Services, which can provide connections to specific departments or majors. Career Services also offers guidance for establishing a successful internship program.

Interested in an intern but not as an employee? The CU Contract Internship Program is another option if your company is interested in hiring interns. After identifying the intern of choice, CU-Boulder hires and assigns the student to work for your company as a contract intern through a simple agreement. CU-Boulder also manages the payroll administration, worker's compensation, and tax reporting. Your company is billed monthly for the hours worked.

STUDENT PROJECTS

Industry-sponsored student projects offer students additional hands-on, interactive experiences on proof-of-concept projects. These projects provide an opportunity to meet and mentor students in your company's field and evaluate participating students as potential employees while you network and develop relationships with faculty. IP rights are generally assigned to the sponsoring company.

PERMANENT EMPLOYEES

CU-Boulder Career Services will partner with your company to meet hiring needs and establish your company brand on campus. Use information sessions, on-campus interviewing and résumé referral services to connect with highly qualified students and alumni. Career Services can also connect you with academic department liaisons.



"Working as the project manager for the Dream Chaser team has enabled me to grow academically and professionally in ways that are not possible in lectures alone. From management to technical skills, Graduate Projects has equipped me to enter the workforce at a level above the competition," says Ashley Gleaves, Aerospace Engineering Sciences (MS '14), on the graduate design project sponsored by Sierra Nevada Corporation.

Developing Your Workforce

CU-Boulder offers many opportunities for your employees to stay current in their field, make valuable contacts with experts, and further their education. Programs are available at various times and locations (including online) to allow your employees flexibility within busy schedules.

TECHNICAL SEMINARS

Many departments offer regular seminars that are open to the public. These technical seminars provide opportunities to learn about the latest information and to network with other experts and professionals in your specific field.

MENTORSHIP PROGRAMS

As a mentor, build relationships with CU-Boulder students while cultivating and supporting skill and career development. Many departments offer structured mentorship programs as well as regular mentoring and networking sessions on and off campus. Mentors report that the experience is invigorating and brings a fresh perspective to their job.

CLASSROOM LEARNING

- University offerings available to the general public include undergraduate and graduate courses and programs through Continuing Education.
- Evening MBA program is offered in cooperation with the Leeds School of Business.
- Engineering courses, certificates and degrees are available through both the College of Engineering and Applied Science and Continuing Education.
- Graduate degrees and certificates are offered by the Lockheed Martin Engineering Management Program (EMP) either through the distance education program or on-campus courses.
- Daytime undergraduate and graduate courses are offered through degree programs or, on a space available basis, for non-admitted students.
- Evening and online undergraduate courses allow flexibility for busy schedules.
- English language instruction is available for foreign students and professionals.

The Lockheed Martin Engineering Management Program offers customized in-house or online courses for managers and supervisors in related disciplines such as Six Sigma, Lean and Agile Management, Project Management, and Authentic Leadership. When desired, course work can be industry-sector focused.

Distance learning and professional studies provide convenient and flexible education for working professionals, such as the Engineering Anywhere program offered by the Center for Advanced Engineering and Technology Education (CAETE).



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Developing Your Products & Business

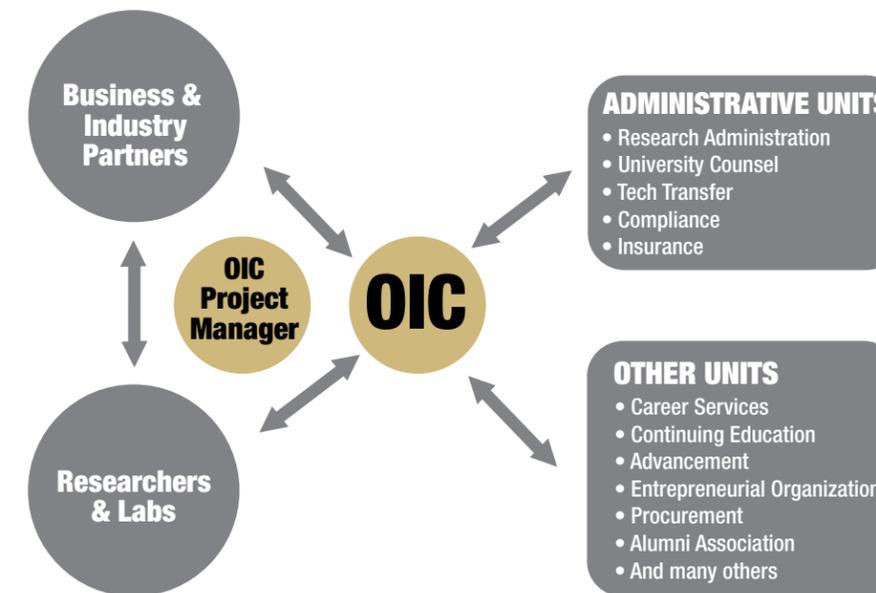
CU-Boulder receives more than \$350 million per year in research funding from the federal government and industry. Our faculty experts are available and interested in advancing development of your company products. After facilitating your connection with the appropriate researchers and institutes, the Office of Industry Collaboration supports a straightforward process toward implementation to reach your goals in an efficient and timely manner.

UTILIZE CU RESEARCH SERVICES

CU-Boulder has numerous world-class facilities for testing and development. When there is excess capacity, these facilities are often available to the private sector for a fee. In addition, CU-Boulder experts are able to assist with designing tests and interpreting results. A complete list of research services can be found on the Office of Industry Collaboration Research Services webpage.

SPONSOR RESEARCH

CU-Boulder has 11 major research institutes and more than 100 research centers with excellent connections to both Colorado-based federal research labs and those across the nation. In addition to conducting federally sponsored research, CU-Boulder's renowned researchers readily work with business and industry partners around the state, country and world to conduct fundamental and applied sponsored research projects. When facilitating interactions between companies and CU-Boulder researchers, the Office of Industry Collaboration utilizes a project management approach to understand company project goals, propose options for university participation, and then monitor and report on progress until final delivery is complete.



The Office of Industry Collaboration (OIC) supports straightforward project design and implementation. OIC has the ability to facilitate interactions between industry partners and researchers with other campus administrative units and with other units of interest and value. When desired, a project manager can support a project from conception through implementation and delivery.

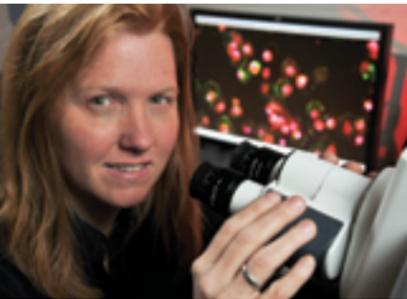
Research Initiatives

New research initiatives strategically assemble CU-Boulder researchers to address the most challenging problems facing society. Areas of interest include:

- Aerospace
- Biotechnology
- Computational Science and Engineering
- Geosciences
- Renewable and Sustainable Energy



The 3 MV Electrostatic Accelerator (above) is the largest dust accelerator in the world and is available for use by the lunar, space and plasma physics communities. Photo © Keith Drake.



Kristi Anseth, a Distinguished Professor of Chemical and Biological Engineering and Howard Hughes Medical Institute Investigator, is one of a very select group in the nation elected to all three branches of the National Academies: the National Academy of Sciences, the National Academy of Engineering and the Institute of Medicine. Professor Anseth's biomaterials research is also the basis for two new startup companies, Nanoly and Mosaic Biosciences.

An innovative new solid-state battery that could make current lithium-ion batteries obsolete has been developed by mechanical engineering professors Conrad Stoldt and Se-Hee Lee using commonly available pyrite materials. Their fundamental research is now being commercialized by Solid Power, a new CU-Boulder spinoff company. Successful implementation of Solid Power's technology will enable reductions in vehicle cost and overall weight, leading to improvements in driving range. Professor Stoldt's lab also operates a Bruker D2 Phaser X-Ray Diffraction instrument for characterizing the microstructures of solid powders, thin films and bulk samples. Use of this instrument is available to industry on a contract basis.

JOINT PROPOSALS

An increasing number of federal and state government opportunities, ranging from Small Business Innovation Research (SBIR) to large NASA mission opportunities, encourage joint proposals from universities and industry. CU-Boulder works collaboratively with industry partners and other universities in responding to these opportunities.

COMMERCIALIZE CU-BOULDER RESEARCH

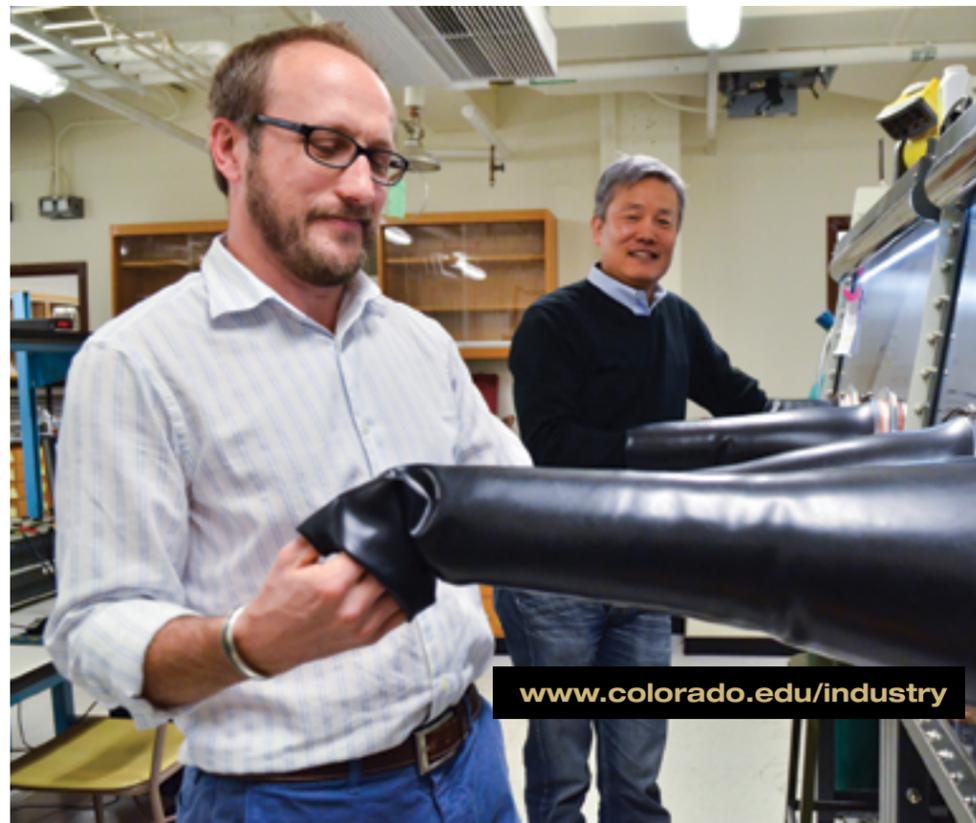
New products and companies are frequently developed from ideas formed during the course of campus research. Over the past six years, more than 600 inventions were submitted to the Technology Transfer Office (TTO). CU-Boulder offers innovative ideas and technologies that might be the next new product for your company. TTO serves as a liaison for industry partners interested in commercializing CU technologies. TTO offers a number of flexible options for exclusive and non-exclusive access to CU-developed technologies.

ENTREPRENEURIAL SUPPORT

Boulder has the highest "high-tech startup density" of any metro area in the United States (Kauffman Foundation). CU-Boulder enhances the vibrant Boulder startup economy through the support and creation of both university and community generated startups. The Silicon Flatirons Center for Law, Technology and Entrepreneurship and the Deming Center for Entrepreneurship are the cornerstones of the CU-Boulder entrepreneurial program. These groups connect to other campus units, support student-led entrepreneurial initiatives, and sponsor community engagement events.

"The blueprint for a leading entrepreneurial research university is to be three things: (1) a community catalyst: a nerve center where the startup community convenes and information spillover occurs; (2) a magnet, teacher, and pipeline for the next generation of entrepreneurial talent into the region; and (3) a source of insight, ranging from innovative ideas that can be commercialized, to broad and fundamental understandings about what makes startups as well as startup communities work"

— Phil Weiser, Dean of the University of Colorado Law School, from *Startup Communities* by Brad Feld



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Engaging with CU-Boulder

Your company can reach thousands of students, faculty, staff and community members through advertising and sponsorship opportunities. You will increase your company brand recognition with potential employees, research partners and customers while your company provides support for CU-Boulder activities.

OPPORTUNITIES

- Advertise through athletic, art and cultural events
- Offer discounts on your products and services to the 7,200 employees on the Boulder campus through the CU-Boulder Staff Council
- Participate in speaking engagements
- Volunteer in outreach activities, mentorship programs, etc.

SPONSORSHIPS

- **Corporate Membership Programs**—Certain departments, colleges and specialty areas provide opportunities for a higher level of corporate engagement, often through membership programs and advisory committees. Company support allows collaboration with the leaders of these units as they plan for the future.
- **Student Groups**—A variety of leadership and community engagement student programs need additional support to accomplish identified missions and activities.

PHILANTHROPY

Endowments, scholarship funds and matching gifts demonstrate the connection between CU-Boulder and business partners. CU-Boulder is thankful for the support from the business community and welcomes the opportunity to discuss ways that individuals or companies are willing to contribute to the university.

CU BUSINESS VENDOR

The Procurement Service Center Purchasing Department is responsible for the University of Colorado (Anschutz Medical Campus, Boulder, Colorado Springs and Denver campuses) in the procurement of goods and services. Vendor orientations are regularly scheduled to explain how the university does business.

ENRICHING THE LIVES OF YOUR TEAM

Many activities on the CU-Boulder campus are open to the entire community. These activities enhance campus connections and enrich the lives of your employees and families.



LECTURES & WORKSHOPS



PROGRAMS FOR CHILDREN



CONFERENCE ON WORLD AFFAIRS



SPORTS



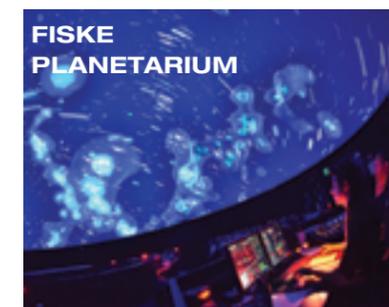
SHAKESPEARE FESTIVAL



MUSIC & DANCE



MUSEUMS



FISKE PLANETARIUM



Industry Collaboration

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www.colorado.edu/industry

VISIT CU-BOULDER

Events: colorado.edu/events

Campus Maps: colorado.edu/visit

Parking: colorado.edu/pts/parking-services

The MAVEN spacecraft ready for launch to Mars. This NASA project was conceived and led by CU scientists in partnership with Lockheed Martin and other industry and academic entities.

