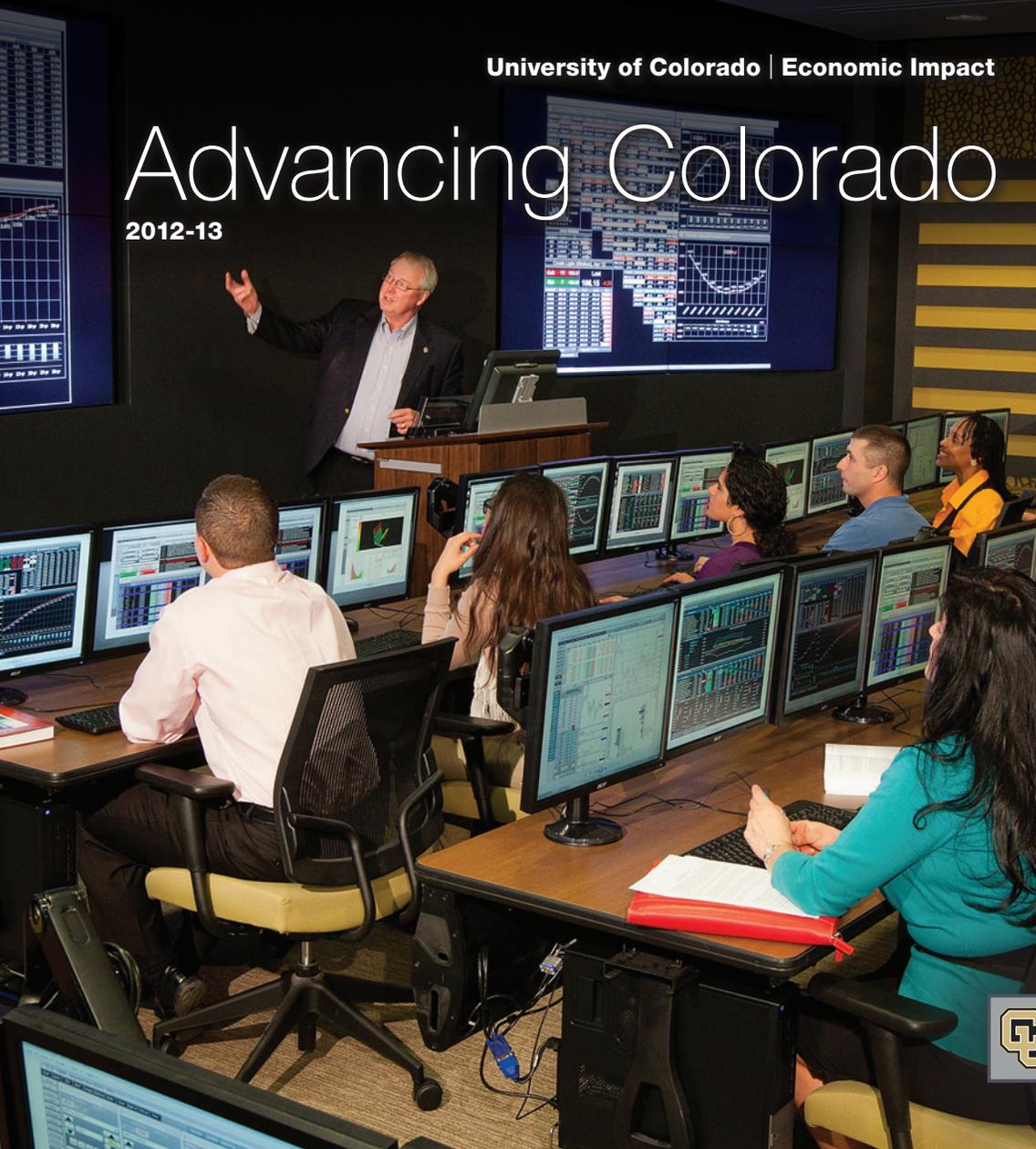


University of Colorado | Economic Impact

# Advancing Colorado

2012-13



University of Colorado

Boulder | Colorado Springs | Denver | Anschutz Medical Campus



**The University of Colorado comprises four campuses: Boulder, Colorado Springs, Denver and the Anschutz Medical Campus in Aurora. CU has 58,000 degree seeking students and more than 190,000 alumni living and working in Colorado.**

# CU now and in the future

A University of Colorado education is a high-yield investment for the student and the state. CU educates, prepares and inspires innovators, entrepreneurs, educators, health care providers and business and community leaders. CU provides a highly skilled workforce, attracts hundreds of millions in research funding, buys from local vendors, and serves as a magnet for business and industry.

## The value of a CU degree

CU offers a high-yield degree. Payrate.com lists CU-Boulder in the top 25 public universities in the nation for salary potential, with a starting median salary average of \$45,900 and a mid-career median salary of \$90,400.

In the past year:

- CU contributed more than \$5.3 billion to the Colorado economy.
- CU garnered \$815.3 million in sponsored research awards. These funds allow for research that improves lives, advances knowledge and addresses critical issues in key economic clusters such as biotechnology, aerospace, energy and health care.
- CU prepares a highly skilled workforce. It bestowed 14,580 academic degrees in FY 2011, almost half of all degrees awarded by Colorado public universities, including the vast majority of advanced and professional degrees.
- The university has formed highly productive research partnerships with national laboratories based in Colorado. Collaborative efforts include large joint institutes with hundreds of

scientists as well as university departmental appointments of adjunct faculty from the national laboratories.

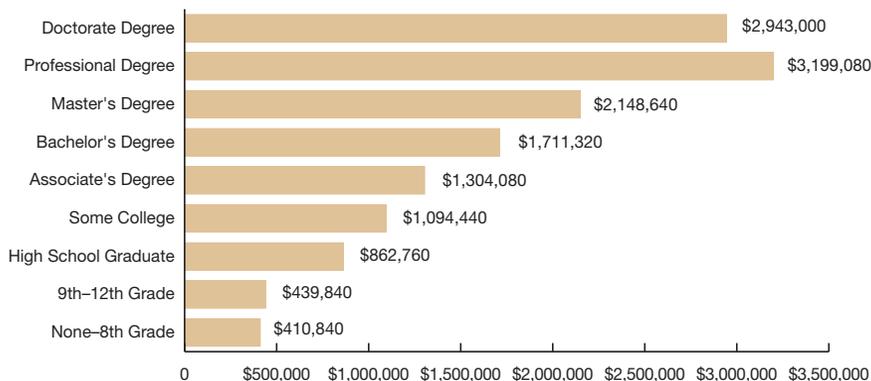
- CU's administrative overhead was 44 percent below that of its national peers.
- CU received sponsored program awards that include funding from the National Institutes of Health, the National Science Foundation, NASA, the Department of Defense and the Department of Agriculture.
- CU Anschutz Medical Campus is the hub of life sciences and medical research in Colorado, with more than \$430 million in research spending.

In FY 2011, the University of Colorado was the third-largest employer in the state of Colorado, employing 27,500 people directly and another 16,000 people indirectly through its demand for goods and services, as well as construction.



CU students spent \$500 million last year, while visitors such as family and friends spent \$22.9 million, including costs for hotels and recreation.

### Median Lifetime Earnings by Educational Attainment



Source: U.S. Census Bureau

As of July 2012, the unemployment rate of civilians age 25 and older with a bachelor's degree or higher was 4.1 percent, compared to:

- 12.7 percent for those with less than a high school diploma
- 8.7 percent for high school graduates with no college
- 7.1 percent for some college or associate degree.

— U.S. Bureau of Labor Statistics

## Revolutionizing research at a state-of-the-art facility

Faculty and students in the **Jennie Smoly Caruthers Biotechnology Building** on CU-Boulder's east campus, dedicated in spring 2012, are revolutionizing research and teaching, and facilitating work on a wide range of pressing societal challenges. The building is home to three organizations: The BioFrontiers Institute, the Department of Chemical and Biological Engineering and the Division of Biochemistry. Outstanding faculty include Nobel Laureate and Distinguished Professor Tom Cech, who directs the BioFrontiers Institute, and Professor Leslie Leinwand, chief scientific officer of the BioFrontiers Institute. Funding for construction of the \$170 million building comes from private donations, the National Institutes of Health through the American Recovery and Reinvestment Act, from the university and the state of Colorado.



## Discovery and innovation

CU provides Colorado the knowledge-based workforce it needs to compete in an increasingly global economy. Our more than 358,000 alumni are catalysts in business, health, the arts and community growth at home and abroad.

The CU Technology Transfer Office provides patent and commercialization support to researchers and serves as a liaison for industry partners interested in commercializing CU technologies. Last year, it registered:

- 226 invention disclosures.
- 261 U.S. patent applications.
- \$32.8 million in license revenue.

In the past five years, 52 companies were formed based on intellectual property created from research conducted in labs at the University of Colorado. Of these, 44 (85 percent) have operations in Colorado. Companies created in the past five years have:

- Attracted \$406.7 million in venture capital.
- Garnered \$13.7 million in Small Business Innovation Research and the Small Business Technology Transfer funding.
- Evolved from one or two people at startup to employ as many as 300 people.



# CU in space

The University of Colorado continues its long-standing collaboration with NASA, receiving \$72 million for fiscal year 2011-12, up some \$11 million from the more than \$61 million it received in 2010-11. CU ranks first in the nation in funding from NASA for public universities.

Research under way at CU-Boulder:

- The Sentinel Mission, with the potential of approximately \$25 million, will have students at the controls, under the direction of engineers, to better identify and monitor asteroids that could threaten Earth.
- A remotely operable garden to support astronauts in deep space will be developed as part of the 2013 Exploration Habitat (X-Hab) Academic Innovation Challenge. The yearlong student project will be funded by a grant of about \$40,000.
- The Mars Atmosphere and Volatile Evolution Mission (MAVEN), set to launch in 2013, will explore the planet's upper atmosphere, ionosphere and interactions with the sun and solar wind, a \$485 million collaboration with the University of California, Berkeley.
- The Sun-Climate Research Center, initiated in 2010, is a collaborative center dedicated to the study of the sun's effect on Earth's climate.

CU has 18 alumni astronauts who served on 40 space missions spanning the U.S. space program from the Mercury program of the early 1960s to recent space shuttle missions.



**CU is the only research institution in the world that has designed and built NASA space instruments that have traveled to every planet in the solar system.**

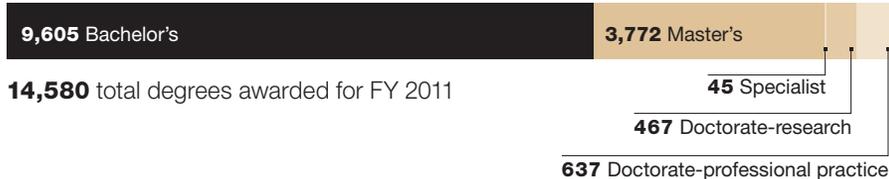


**CU students not only contributed to the state through experiential learning and outreach, they also spent more than \$500 million statewide in FY 2010-11.**

# Learning and teaching

The University of Colorado is a dynamic community of scholars and students collaborating on solutions to our greatest challenges in the sciences, arts and humanities, pursuing knowledge in service to Colorado, the nation and the world, and forging new kinds of partnerships in health and wellness, government, community and business.

- More than 58,000 students were enrolled in degree programs at CU in fall 2012.
- An additional 9,000 students took classes for credit at CU.



CU awarded 47 percent of degrees conferred by Colorado public institutions in 2010-11, the most in the state. CU awarded:

- 43 percent of the state's bachelor's degrees
- 58 percent of the master's degrees
- 52 percent of specialist degrees
- 71 percent of doctoral degrees

CU offers several distance education degree programs and a growing number of certificate programs. Some programs are available completely online and others through a mix of different media. CU has:

- 33 degree programs completely online
- 69 certificate programs online
- 32,700 total online enrollments

CU boasts five Nobel Laureates:

- David J. Wineland, physics, 2012
- John Hall, physics, 2005
- Eric Cornell and Carl Wieman, physics, 2001
- Thomas Cech, chemistry, 1989

Other outstanding faculty members include eight MacArthur fellowship winners and the Carnegie Foundation's Professor of the Year, awarded to Wieman.

Colorado's public colleges and universities are among the most productive in the nation, and CU is the most productive in Colorado.

- A recent Delta Cost Project study found that Colorado produces more degrees and certificates per 100 full-time students than any other state.
- Colorado ranked second in productivity, as measured by lowest total funding per degree/certificate awarded.
- Colorado ranked first in productivity of bachelor's and master's institutions in terms of lowest total funding per degree/certificate awarded.

*[The Delta Cost Study looks at Colorado public institutions collectively – not CU specifically.]*

The University of Colorado institutional financial aid, which comprises internally generated funds as well as donor and fundraising efforts, totaled \$123 million for FY 2012, up from \$38 million (223 percent) from FY 2002. CU has consistently looked for greater financial aid opportunities to enable access to higher education for all students.

In FY 2011, 39,880 CU students received financial aid:

- 23,046 resident undergraduates
- 4,790 nonresident undergraduates
- 9,465 resident graduates
- 2,579 nonresident graduates

Including federal, state, institutional and other scholarship and loans, more than \$628 million in financial aid was awarded to CU students in FY 2011.



- CU tuition rates are at or below the average of national peer institutions. CU has maintained access and preserved quality despite significant cuts in state funding.
- Data released by the National Science Foundation show that CU is very successful in attracting federal research dollars and conservative in its use of institutional funds for research.
  - In the most recent rankings available, CU ranked fifth among all public institutions in terms of federally funded science and engineering research funding with a total of approximately \$500 million.
  - Among the top 10 public institutions in federal research expenditures, CU had the lowest amount of institutionally funded research expenditures.

## JP Morgan Commodities Center

J.P. Morgan and the University of Colorado Denver on April 5 announced the opening of the **J.P. Morgan Center for Commodities**, a first-of-its-kind partnership in the academic world that will provide innovative programs and academic work in the field of commodity finance, economics and policy. The J.P. Morgan Center for Commodities in CU Denver's Business School is supported by the firm's \$5.5 million gift and a CoBank \$2.5 million gift. The center aims to solidify Denver as the world's hub for this field of study.





**School of Medicine faculty practice at the University of Colorado Hospital, ranked the top academic medical hospital in the country two years in a row by the University HealthSystem Consortium, and at Children's Hospital Colorado, consistently ranked in the Top 10 by U.S. News & World Reports.**

# Health and wellness

CU is a front-runner in health and wellness in the areas of treatment, prevention and access. From the outreach programs at Beth-El College of Nursing at UCCS, to the Charles C. Gates Regenerative Medicine and Stem Cell Biology Program on the CU Anschutz Medical Campus, CU is leading the way in health innovation.

CU is the only public university meeting the state's growing demand for physicians, dentists and pharmacists. It also is a leader in preparing physician assistants, nurses, oral surgeons, medical technicians and physical therapists.

Doctors who teach in the CU School of Medicine treat patients at University of Colorado Hospital and Children's Hospital Colorado on the CU Anschutz Medical Campus, and other affiliates:

- Denver Health Medical Center
- National Jewish Health
- Veterans Affairs Medical Center





## In fiscal year 2011-12:

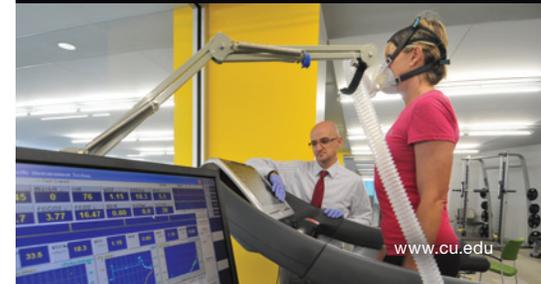
■ The CU School of Medicine received less than \$11 million in state general funds but provided some \$66.4 million in uncompensated care to Colorado residents.

- Health professionals obtaining degrees in FY 2011-12:
  - School of Medicine: 149 doctor of medicine graduates
  - School of Dental Medicine: 88 doctor of dental surgery graduates
  - Skaggs School of Pharmacy and Pharmaceutical Sciences: 190 doctor of pharmacy, three Ph.D. graduates
  - College of Nursing: 201 baccalaureate nurses, 68 advanced practice nurses, 21 nurses with doctorate degrees

In early 2012, University of Colorado Health was established – a partnership among University of Colorado Hospital, CU School of Medicine, Children’s Hospital Colorado and Poudre Valley Health System. CU Health also entered into agreements to manage Memorial Hospital in Colorado Spring and Ivins Memorial Hospital in Laramie, Wyo. The five hospitals combined have a \$2.2 billion annual budget and 15,000 employees.

## Anschutz Health and Wellness Center: Practical solutions for healthy lifestyles

The 95,000-square-foot **Anschutz Health and Wellness Center**, which opened in April 2012, is a five-floor “green” complex designed to be a hub of activity at CU Anschutz Medical Campus and the city. It sets a new, global standard for integrated, cross-disciplinary research to create practical solutions to promote healthy lifestyles and prevent disease. At the new building, patients, employees, students and the general public are able to participate in research studies, take advantage of the building’s exercise and educational facilities, and receive top-notch medical care and wellness services.



# Community and culture



## Conference on World Affairs 2012

CU-Boulder hosted the annual Conference on World Affairs for the 64th year April 9-13, with 200 events including panel discussions, performances, and plenaries. More than 100 participants from around the country and the globe paid their own way to travel to Boulder to present. Some 94,300 people attended events.



## Front and center facing the fire

The worst fire in terms of property damage in Colorado history raged in the hills west of the University of Colorado Colorado Springs between June 26 and July 9, destroying 346 residences. UCCS provided housing for 547 people –1,461 bed nights, valued at \$55,758 – during the Waldo Canyon Fire. The campus became the site for media briefings and housed 169 first responders, 101 evacuees and 203 U.S. Air Force Academy cadets, who were provided classrooms to continue their courses.

## Helping veterans go from 'Boots to Suits'

Thousands of servicemen and women from all branches of the military are coming home, returning to school and to the workplace, eager to start new lives and become leaders in our community. With the newly created Boots to Suits program, CU Denver is teaming up with the Denver Metro Chamber of Commerce to assist highly trained and well-educated veterans as they move from the classroom to a career.

## Delivering dental services to a county near you

The CU School of Dental Medicine Colorado Smilemakers Mobile Dental Clinic provides diagnostic, preventive and restorative services to underprivileged children in underserved Colorado counties. Since its beginning in 2005, 50 dental students have served 443 children in Yuma, Eagle and Sheridan counties and performed 3,210 procedures.



# CU athletics

CU-Boulder accepted an invitation in 2010 to join the Pac-10 Conference as its 11th member; a week later, Utah was added and the conference became the Pac-12 in July 2011. In addition to shared academic excellence, CU-Boulder and the other Pac-12 member institutions hold impressive athletic résumés.

- Pac-12 schools earned 119 NCAA team titles since 1999-2000, including nine in 2011-12, in 28 different men's and women's sports.
- The Pac-12 has led or tied the nation in NCAA Championships in 46 of the past 52 years.
- CU won the inaugural Pac-12 men's and women's cross country championship as well as the men's basketball tournament.

- CU has research partnerships with every Pac-12 university.
- The Buffaloes added to that total 23 NCAA titles, including 17 in skiing, one in football, and five in men's and women's cross-country.

CU has more than 51,000 alumni residing in the Pac-12 footprint (excluding Colorado), more than three times the number living within its former conference, the Big 12. California is CU's largest source of non-resident students.

In the past year, 443,716 attended Buffaloes home games – 500,902 counting the CU-CSU football game played at Sports Authority Field in Denver.

## Gallogly Events Center at UCCS

In addition to being home to the NCAA Division II and Rocky Mountain Athletic Conference-member UCCS Mountain Lions, the **Gallogly Events Center at UCCS** serves as a multipurpose venue for all campus events. The 27,000-square-foot center opened in 2010 and features high-tech sound, lighting and high-speed data capability. The building was constructed with the help of a \$1 million donation by James L. "Jim" Gallogly, a 1974 graduate, and his wife, Janet, on behalf of the Gallogly family.

Mountain Lion sports include men's and women's basketball, cross country, soccer and track, men's golf and women's volleyball and softball.





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*Advancing Colorado is produced by University Relations in the CU Office of the President.*