Research at Colorado State University
Create:
We pursue novel fundamental discoveries and translate basic research into new applications, products and services that are needed to keep pace with global needs, challenges and opportunities. Our world renowned researchers leave a lasting legacy of knowledge in the scientific community.
Create: Accolades

• CSU is recognized as one of the top research universities in the United States. In 2013, the University had more than $313 million in annual research expenditures.

• CSU is ranked in the top ten percent in the 2012 National Science Foundation’s Higher Education Research and Development survey.

• In 2012 our campus was ranked 38th among Top Public Research Universities by The Center for Measuring Universities Performance.
Create: Opportunities

Research takes place in each of CSU’s eight colleges, and undergraduate research opportunities are offered in several departments.

1. Agricultural Sciences
2. Health and Human Sciences
3. Business
4. Engineering
5. Liberal Arts
6. Natural Sciences
7. Veterinary Medicine & Biomedical Sciences
8. Warner College of Natural Resources
Create: Research and Development

• During 2013, technology transfer activities have resulted in 114 inventions, 148 patent applications, 37 licenses, 8 start-up companies and $1.2 million in revenue.

• Accredited by the Higher Learning Commission (HLC) and the North Central Association of Colleges and Schools since 1925.

• Carnegie Research University (Very high research activity)

• Association of Public and Land-Grant Universities (APLU)
Create: World-Renowned Campuses

- 581-acre main campus in the heart of Fort Collins.

- South Campus houses the world-renowned CSU Veterinary Teaching Hospital.

- Foothills Campus, three miles west of main campus, houses research labs as well as State and Federal programs such as the USDA Animal and Plant Health Inspection Service, the Colorado Division of Wildlife, and the Colorado State Forest Service.
Create: World-Renowned Facilities

Our campus has world-class facilities including:

- University Center for the Arts
- Research Innovation Center
- Behavioral Science Center
- Powerhouse Energy Campus
- Advanced Beams Laboratory
- cGMP drug manufacturing process suite.
Innovate:
Our faculty, researchers and students translate novel innovations in creative artistry and scholarly works from atoms to the solar system, into useful solutions. Working with global partnerships in industry, governments and universities we move our intellectual property and assets into practice and influence.
Innovate: Startups

Distribution of university startup companies created per $100M research expenditure, using AUTM Licensing Survey data from 2010 – 2012.
Innovate: Research Expenditures

Annual Research Expenditures FY13

- Federal Funds: $219,855,563
- Industrials: $19,039,791
- State and Local: $12,279,823
- Foundations: $5,937,281
- Other Non-Federal Sources: $7,620,109
- Non-Science & Engineering Non-Federal: $2,037,200

Federal Agency Expenditures FY13

- Department of Agriculture (USDA): $31,640,406
- Department of Defense: $39,388,749
- Department of Energy: $11,435,190
- Health & Human Services: $50,019,723
- National Science Foundation: $37,410,658
- NASA: $8,251,380
- Miscellaneous: $35,198,960
- Non-Science & Engineering: $6,510,497
Innovate: HARP Initiative
Horizontally Accelerated Research Programs

- Successful HARP teams will be funded by diverse sponsors and combinations from government, industry, and non-profit foundations.

- Membership from multiple colleges representing interdisciplinary approaches, a requirement to include creative arts and the social sciences, attention to the creation and translation of intellectual property, strategy and timelines for targeting diverse funding sources.

- The HARP initiative will provide funding support based on two applications: BOW and String grants.
Catalyst for Innovative Partnerships

• 7 teams were seeded with a critical mass of funding up to $200,000 for two years and provided infrastructural support to seek partners and resources to create and deliver novel solutions for some of our most important problems.
Diversify:
We promote diversity in training the workforce of the future as well as in the sponsorship and collaborations required to achieve the impact we seek. Researchers come to CSU to be a part of an exciting intellectual ecosystem and leave with the knowledge, skills and passion to connect communities beyond campus.
Diversify: Community Partnerships

And many more…
Diversify: Business & Community Engagement

- CSU’s rich land-grant heritage drives real world solutions, and a culture of transitioning research innovations into products & services
- CSU Ventures manages a portion of CO OEDIT’s Advanced Industries Grants Program to help small businesses
- Extensive engagement with industry: 63 active master agreements with over 30 new master agreements in progress
- Revamped processes to instigate business partnerships: “Business Friendly” IP terms, fixed price contracts, etc.
Aspire:

Colorado State University researchers are dedicated to solving regional and global problems. Our land-grant heritage instills a profound culture of purposeful impact in service and extension for Fort Collins, Colorado and across the globe. We aspire to ensure our research creates a lasting legacy of positive outcomes.
Aspire: Core Areas of Research Excellence

• Infectious Diseases
• Cancer in Animals
• Energy Management & Renewables
• Chemistry
• Agricultural Sciences
• Natural Resources
Aspire: Climate Change

• Future Earth, UNESCO supported program for global sustainability that has brought together the world’s leading researchers on global environmental change.

• Selected five global hubs including Canada (Montreal), France (Paris), Japan (Tokyo), Sweden (Stockholm) and the United States (Colorado).

• The Colorado hub is a partnership between Colorado State University and University of Colorado researchers.
Aspire: Antimicrobial Resistance

Antimicrobial resistance (AMR) threatens the effective prevention and treatment of an ever-increasing range of infections caused by bacteria, parasites, viruses and fungi.

“Antimicrobial resistance is not a future threat looming on the horizon. It is here, right now, and the consequences are devastating.” Dr. Margaret Chan, Director-General of the World Health Organization
Questions?

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