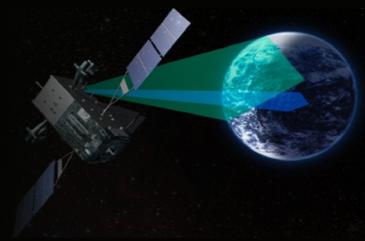


# University of Colorado: National Security



**High-impact national security research and workforce development enabled by essential infrastructure, intellectual capital and processes**

With longstanding strengths in national security research, infrastructure and workforce development throughout its four campuses, the **University of Colorado** is well-positioned to help address the nation's most pressing national security needs.



**Fundamental and applied research** supporting national security priorities



**Access to intellectual capital** through world-class faculty, specialized academic programs and topical studies



**Workforce development** including hiring, internships and student projects

## Aerospace & Defense Core Capabilities

- Hypersonics
- Space Domain Awareness
- Positioning, Navigation & Timing
- Autonomous Systems
- Optics and Photonics
- Combat Casualty Care
- Cybersecurity
- Manufacturing

### Enabling Research Capabilities

- Remote Sensing Data Analytics
- RF Engineering
- Quantum Sensing
- SmallSat Technologies
- Materials Sciences
- Bioengineering
- Space Weather

## A Powerful Convergence of Research & Technical Collaborators



**DEFENSE CONTRACTORS**

Lockheed-Martin  
Ball Aerospace  
Sierra Nevada  
Northrop Grumman  
Raytheon  
L3-Harris  
many more

**University of Colorado**

CU Boulder  
CU Anschutz Medical Campus  
CU Colorado Springs  
CU Denver

**ACADEMIA**

**GOVERNMENT**

33 federally-funded labs in CO (with a \$2.5B impact)

Air Force  
Army  
Navy  
NGA  
NRO  
NSA  
DOE

FOUR CAMPUSES UNITED  
**ALL FOUR: COLORADO**

# University of Colorado: Four Campuses United



## University of Colorado **Boulder**

- National Security Initiative
- Tier-1 research university, \$614M in research funding FY2019-20
- Top-10 ranked public aerospace program (graduate and undergraduate)
- Nation-leading institutes: LASP, CIRES, JILA



**Iain Boyd**  
Faculty Director, National Security Initiative



**James Olson**  
Executive Director, National Security Initiative



## University of Colorado **Colorado Springs**

- Cybersecurity initiatives in computer science, business and public affairs
- NSA Center of Academic Excellence Certification
- Potential infrastructure expansion to include defense sector and intelligence agency partnerships
- Workforce supply: 20% of students are military affiliated



**Don Rabern**  
Dean, College of Engineering and Applied Science



**Gretchen Bliss**  
Director, Cybersecurity Program



## University of Colorado **Anschutz Medical Campus**

- Nationally ranked in 11 specialties
- \$762M in research funding (basic science, translational research, clinical trials, bio-engineering) FY2019-20
- Innovative Center for COMBAT Research, focused on combat military and space health with 70+ researchers
- Two joint CU/NASA faculty and a novel joint medical/master's degree in Aerospace Engineering
- CU Innovations entrepreneurial biomedical focus: 2,000 patents filed, launched 60+ startups
- Partnership with Colorado's #1 hospital (University of Colorado Hospital)



**Vik Bebarta**  
Director, Center for Combat Medicine and Battlefield (COMBAT) Research



## University of Colorado **Denver**



- Expanding cybersecurity and data analytics research and training: two DoED training programs and new degrees for Fall 2021
- RF, spectrum, wireless systems technology and policy programs
- Aerospace manufacturing and design center (2021); AFOSR support and Lockheed Martin partnerships
- National Media Forensics Center supported by DoD
- Workforce development; strong diversity and inclusion



**Martin Dunn**  
Dean, College of Engineering, Design and Computing



**Douglas Sicker**  
Senior Associate Dean, Computing Initiatives

# Colorado's Front Range: A World-Class Innovation Ecosystem



Colorado is the **2nd largest** aerospace economy in the nation



Home to **Space Command, NORTHCOM** and 4 DOD installations



Colorado's aerospace industry generates **\$15.4B** in total annual output



Colorado Front Range is one of the **top entrepreneurial ecosystems** in the nation



CU Boulder is the **#1 public university recipient** of NASA research awards (#2 overall)



**5,600+** active duty, reserve, National Guard, veteran and military dependent students across the University of Colorado



CU is ranked in the **top 20 universities globally** for granted U.S. utility patents



**\$1.41B total** in annual sponsored research funding across the University of Colorado



University of Colorado

Boulder | Colorado Springs | Denver | Anschutz Medical Campus