

Agenda

Elevating Our Reputation Through Innovation

- Welcome & State of the College
- Workshop: Elevating Our Reputation
- Lunch with Chancellor Schwartz
- Quantum Engineering
- Workshop: Innovation & Entrepreneurship
- Executive Session



Engineering Advisory Council

Purpose:

- Advise the college on programs and policies
- Encourage and advocate for resource development
- Develop and guide education, outreach, and research programs
- Recognize achievements of alumni and other supporters in publicity and public relations

Meeting Expectations:

- Provide candid assessment to help us improve
- Speak and listen for understanding



Since Our Last EAC Meeting

- Measured Engineering Connections and Lattice Scholars impacts
- Progressed Professional MS programs
- Designed Integrated Bus+Eng (IBE) degree
- Implemented training for 100 leaders
- Adjusted EAC meeting format
 - Added two 90-min. workshops
 - Adding student activities for spring



Welcome New Members

- Karen Furlani Worley
- Terry Hogan NCWIT
- Jiong Ma Chavant Capital
- Mina McCullom SynEnergy
- Dennis Pretti Micron
- Steven Smith BAE



Karen Furlani



Terry Hogan



Jiong Ma



Mina McCullom



Dennis Pretti



Steven Smith

Nomination Opportunities

- Alumni Nominations (Nov 15)
 - Distinguished Engineering Alumni Awards
 - EAC volunteers for DEAA committee
- Engineering Advisory Council (Feb 1)



Current State of U.S. Higher Education

- Enrollment cliff
- Increasing cost of attendance
- Erosion of public confidence
- Attacks on DEI programs
- Gen Z attitudes
- Impact of AI



Current State of DEI Programs

- Universities are closing DEI offices and terminating staff
- Identity-based scholarships are being eliminated
- Identity-based K-12 STEM programs are closing their doors



Current State of DEI Programs Cont'd

Small group discussion questions:

- How does the higher education experience track with what is happening in your organization?
- Have you found innovative approaches to building a diverse engineering workforce?



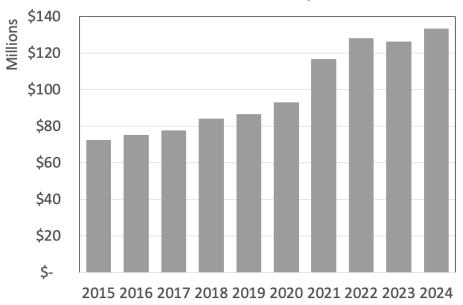
Driving our Strategy Forward



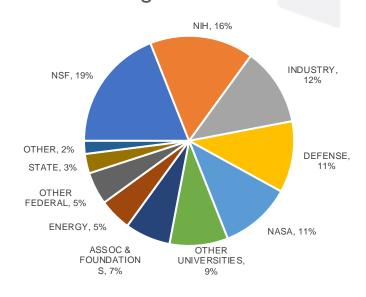


Research Funding & Expenditures

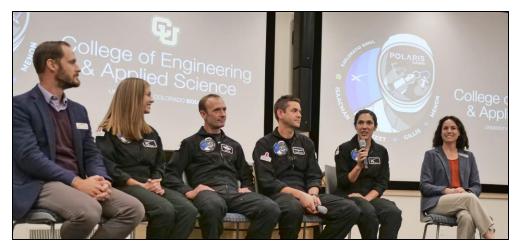
CEAS Annual Total Research Expenditures



Funding Sources FY24



CEAS astronaut and researchers integral to SpaceX's Polaris Dawn mission



CU Boulder aerospace engineers Torin Clark, left, and Allie Hayman, right, sit with the crew of Polaris Dawn during an event on campus in 2022.

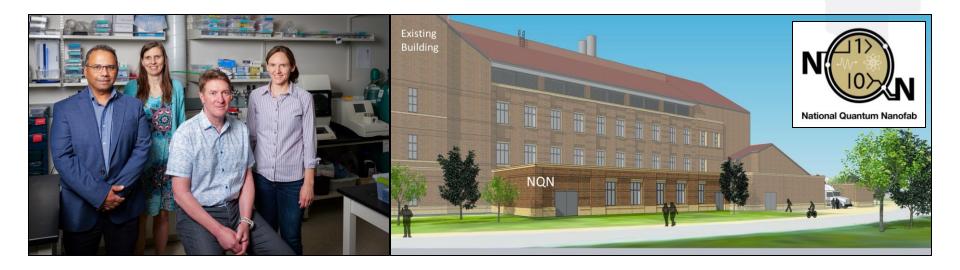


Triggerfish "smart" contact lenses monitor changes to astronauts' eyes on SpaceX's Polaris Dawn mission in September 2024.



Space X astronaut Sarah Gillis, a CEAS grad, plays the violin and becomes the youngest person to participate in a spacewalk.

\$20M NSF National Quantum Nanofab





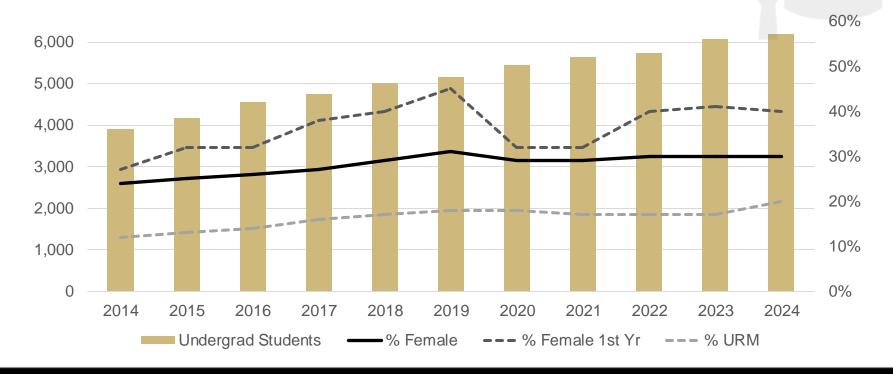
Wil Srubar named Deming A-Dean for I&E





Fostering a culture of innovation and entrepreneurship among faculty, postdocs, and graduate students

Undergraduate Enrollment





Retention and Transfer Initiatives

Engineering Connections



Lattice Scholars[™]



Associate of Engineering Sciences



Colorado Community College Pathways

- Arapahoe Community College
- Colorado Mountain College
- Community College of Aurora
- Community College of Denver
- Front Range Community College
- Pikes Peak State College
- Red Rocks Community College



Engineering Connections

1st Cohort Results

- 90% returned to CEAS for 2nd year highest ever
- 94% returned to CU for 2nd year – also highest ever
- Students reported highest overall belonging and satisfaction with making friends across campus



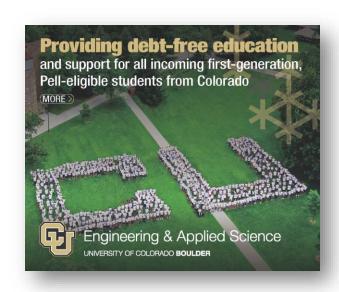
Lattice Scholars[™] Program Debt-Free First-Generation Education

Closing the gap

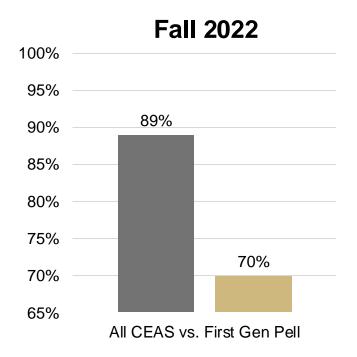
 100% cost of attendance Pell-eligible, first-generation, Colorado students

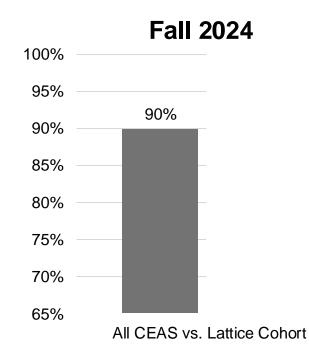
Programming

- Money
- Math
- Mattering

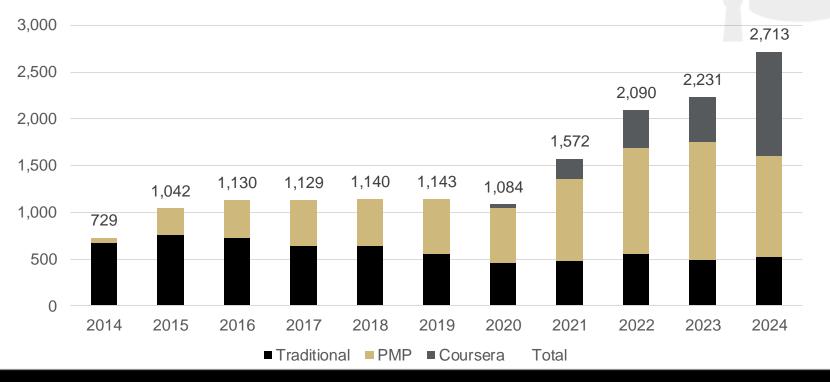


Lattice Scholars[™] Retention Results





MS Enrollment







Graduate Education

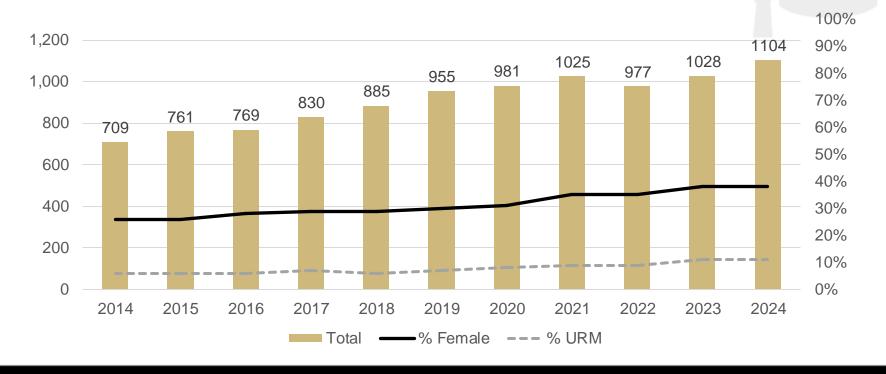
Growing our Coursera Offerings

- Engineering Management
- Electrical Engineering
- Computer Science
- Data Science
- Al (coming soon)





PhD Enrollment Growth



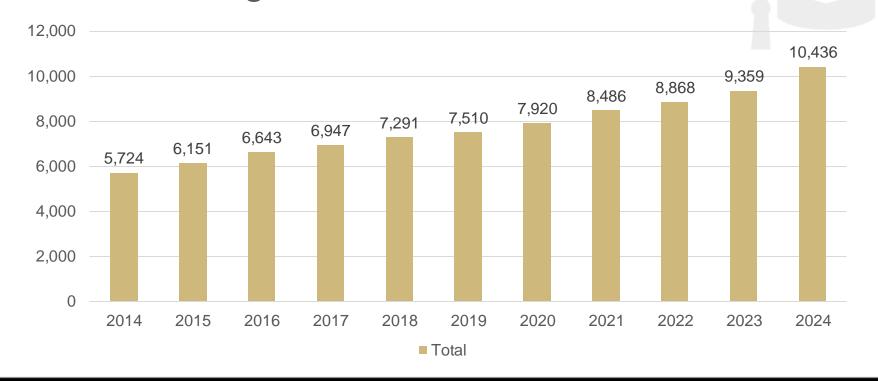
PhD Enrollment Overview

Fall 2024 Highlights

- Largest ever with 242 new students
- Top in PhD gender parity among large publics
- 7th nationwide in NSF GRFP recipients
- Inaugural Engineering Ed and Robotics classes



Overall College Enrollment Growth (w/ Coursera, Postbacc and Partnerships)



Shared Equity Leadership Model

Is a framework for:

- A critical mass of people who are committed to undertaking a personal journey toward critical consciousness
- Who share equity-focused values
- Enact specific practices to promote more just and equitable outcomes.

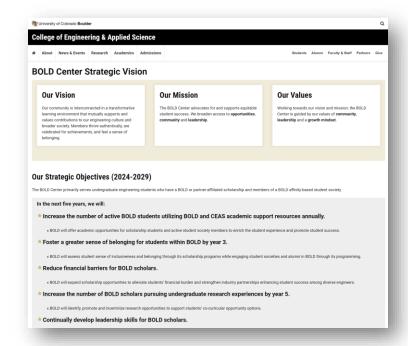
SHARED EQUITY LEADERSHIP



New BOLD Center Strategic Vision and Scope

Renewed Student Focus

- Focusing on student success and closing the equity gap
- Broadening access to opportunities, community and leadership
- Home for affinity-based student societies



Council of Advisory Boards Charter

The Council of Advisory Boards will work together to serve as a resource for CU Boulder. CAB's mission is to:

- Accelerate the Chancellor's priorities through the coordination of activities across our boards.
- Partner with Advancement to further engagement goals with students and alumni.
- Share information and best practices across our boards.
- Encourage board actions that build awareness and advocacy for CU Boulder across the global community.

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Promise vs. Experience: CU Boulder Integrated Marketing and Communications

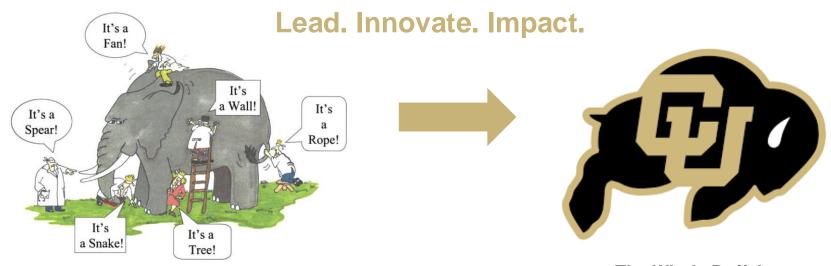
College of Engineering and Applied Science Advisory Board
October 25, 2024





Strategic Relations and Communications (SRC)

SRC leads campuswide communications that support successful outcomes at CU Boulder and inspire affinity for our university.



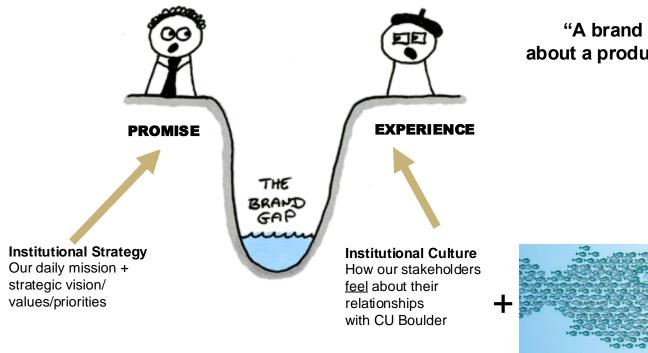
The Whole Buffalo







Promise (strategy) vs. experience (culture) = our brand



"A brand is a person's gut feeling about a product, service or company"

Marty Neumeier, The Brand Gap





Understanding

Consideratic

Loyalty

We have aligned SRC to support our institutional strategy & bolster our brand.





(advancing/protecting CU Boulder's reputation; employee journey)





Matrixed COMMUNICATIONS CULTURE with campus-wide PARTNERS for REPUTATION, RECRUITMENT, and RETENTION/ENGAGEMENT goals

Finance and Business Operations / HR and Employee Engagement • Katie Clark

Project Management and Strategic Events • Karrie Pitzer

Advancement Marketing and Communications (matrixed)

(Inspiring celebration, engagement and support of our university community)



REPUTATION

Pop Quiz

Among the following Colorado universities, which institution has the highest overall public awareness level as measured by our most recent statewide perception survey?

- a) Colorado State University
- b) University of Denver
- c) University of Colorado Boulder
- d) Colorado School of Mines













REPUTATION

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REPUTATION

Pop Quiz

- 1. Among a cohort of 772 worldwide peers, where does CU Boulder rank in global university visibility?
 - a) Top 25%
 - b) Top 50%
 - c) Bottom 50%
 - d) Top 5%

American Caldwell Global University Rankings 2024 - 2025

To rank these universities by global brand visibility, the researchers evaluated numerous data points across several key categories to determine the most visible university brands. (March 2023 - March 2024)

Metrics Used

- 1. News Mentions
- 2. Public Interest (search)
- 3. Social Media
- 4. Website Visitors
- 5. Web References
- 6. Online Footprint
- 7. Video Views

https://americancaldwell.com/guv-rankings



Pop Quiz

- 1. Among a cohort of 772 worldwide peers, where does CU Boulder rank in global university visibility?
 - a) Top 25%
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CU Boulder currently ranks #45 globally out of 772 universities measured (#31 in the U.S.)

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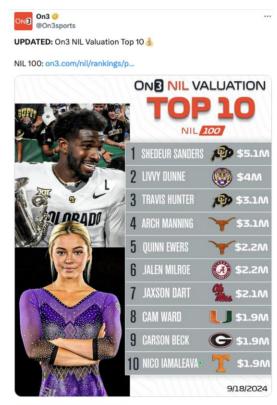
https://americancaldwell.com/guv-rankings



Pop Quiz

Does this count as CU Boulder awareness?

- a) Yes
- b) No



11:36 AM · Sep 18, 2024 · 112.4K Views

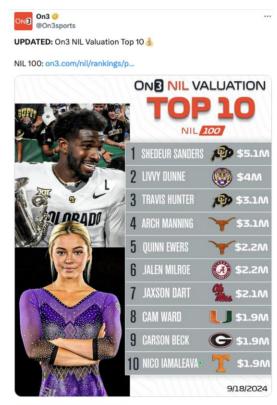




Pop Quiz

Does this count as CU Boulder awareness?

- a) Yes
- b) No



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We have reasonably strong baseline awareness, but...

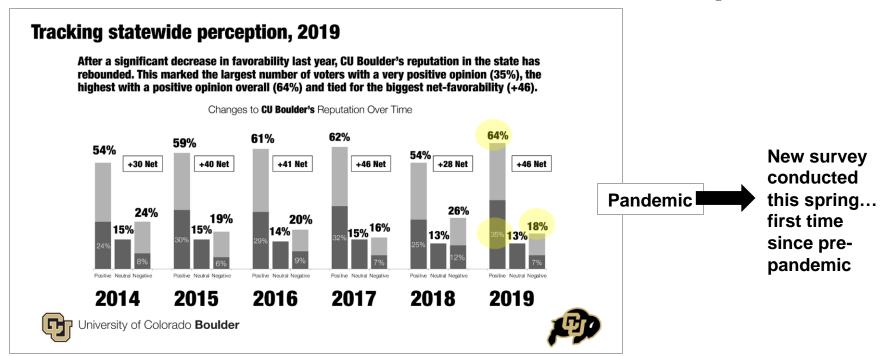
"We need to do a better job of telling our story."







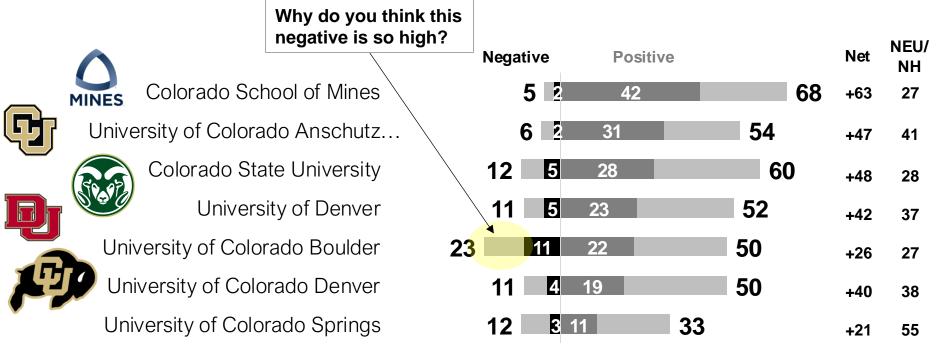
Historical Metrics: Statewide Perception





CO Favorability – Spring 2024

CU Boulder sits in the middle of the pack, and a majority of voters hold positive views towards the university. Compared to past data, all of the colleges have lost some support, with more voters becoming neutral towards them – potentially a sample issue but more likely the result of current conversations around college education and political ideology.

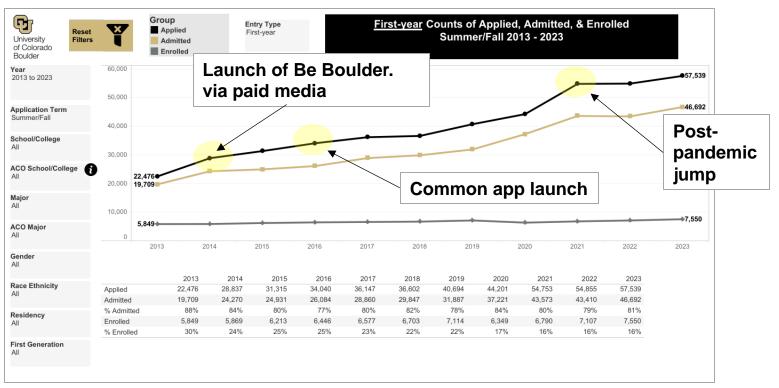


Q4. Now I'd like to ask you about some institutions. For each, please tell me whether you have very positive feelings, somewhat positive feelings, somewhat negative feelings, or very negative feelings about that institution.

^{*} Darker colors indicate intensity

STUDENT RECRUITMENT

Historical Metrics: Total Admission Applications

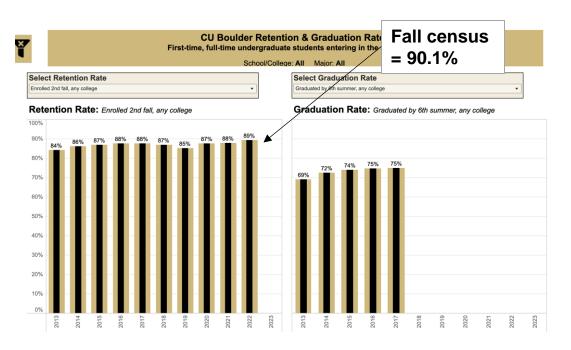






RETENTION/ENGAGEMENT

Historical Metrics: 1st Year Retention / Grad Rates



Gaps in Student Success Outcomes by Demographic Groups

- Overall, all-time highs in since 2021
- Troubling gaps in success outcomes among historically marginalized student groups
- CU Boulder typically retains / graduates historically marginalized students at a higher rate than Colorado peer institutions
- CU Boulder trails most AAU public peers in these outcomes and is committed to improving them

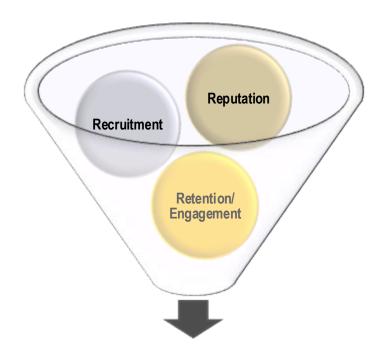






EMERGING APPROACH

Integrated Marketing and Communications Plan (IMCP)



"a comprehensive strategy that combines different marketing communication elements such as advertising, public relations, direct marketing, sales promotion, and digital marketing to achieve... objectives."

https://www.linkedin.com/pulse/what-imc-plan-stepsdevelop-integrated-marketing-communications

Annual Goals/Metrics



EMERGING STRUCTURE

Communications Co-ownership Model



Campuswide Communicators

Communications Advisory Board



NEXT STEPS

Integrated Marketing and Communications Plan

- Annual plan (FY cycle) being developed, including roles by unit and benchmark metrics, for:
 - Reputation (including public affairs issues, strategic events)
 - Recruitment
 - Retention/Engagement*
- Next steps will include <u>updated policies</u>, <u>guidelines</u>, <u>processes</u>, <u>trainings</u>, <u>tools</u> <u>and dashboards for communicator use</u> as we move forward.





*In conversations with Human Resources leadership re: employee recruitment and retention/engagement as future additions to the plan.



Be Boulder. to Buff Identity to Forever Buffs



Awareness

Understanding

Consideration

Action

Loyalty



BLACK	GOLD	GRAY
Jeff Gustavson	Ed Crawley	Bhavna Chhabra
Terry Hogan	Karen Furlani	John Donatelli
Jiong Ma	Mike Gazarik	Jon Goldsmith
Robert Sawaya	Amy Kramer	Mina McCullom
Susie See	Dennis Pretti	Paul Rady
Ed Ward	Ann Smead	Steve Smith



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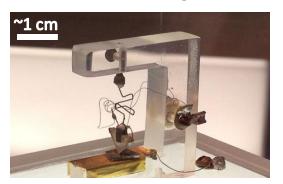


Justin Schwartz

The potential and the challenges in quantum



Electronic integration

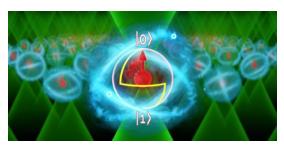


1 transistor (Bell Labs 1947)

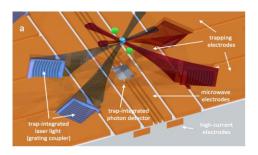


16 billion transistors (Apple 2023)

Quantum integration



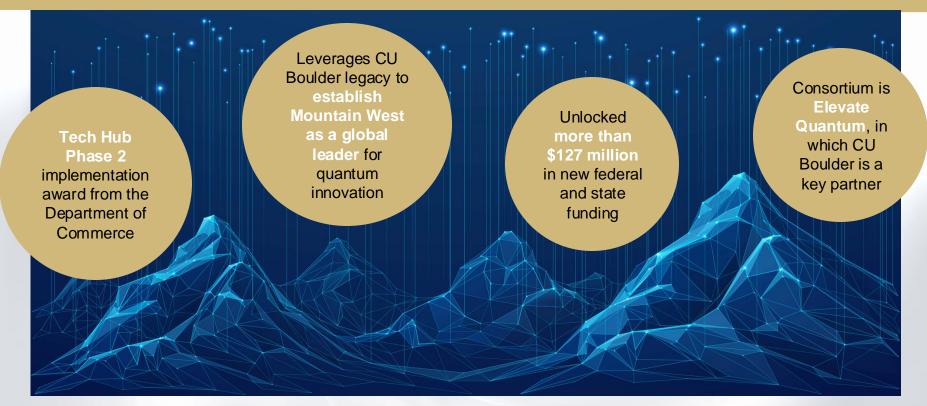
Entangled atoms (2020)

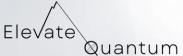


Manufacturable atom qubits

- Controlling quantum systems at the atomic level brings revolutionary power to computing, sensing and communications
- Challenge: We don't yet know how to build the integrated quantum devices to fully realize this potential
- Quantum engineering is central to this endeavor

Quantum Tech Hub







Colorado: The Future of Quantum is *Here*



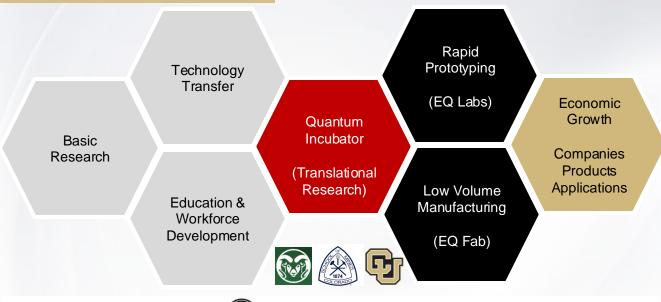
- CU Boulder, Elevate Quantum partners garner a \$127M regional quantum boost
 - √ \$40.5M TechHub EDA
 - √ \$30M State of CO Loan Guarantee (HB1325)
 - ✓ \$44M State of CO Tax Credits (HB1325)
 - √ \$3M State of CO Matching
 - √ \$10M State of NM
- CU Boulder set to release a quantum workforce roadmap to train, prepare and inspire the next generation of quantum workers and the public

Governor Polis signs HB1325 bill strengthening quantum in Colorado at JILA



Continuum of Quantum Assets

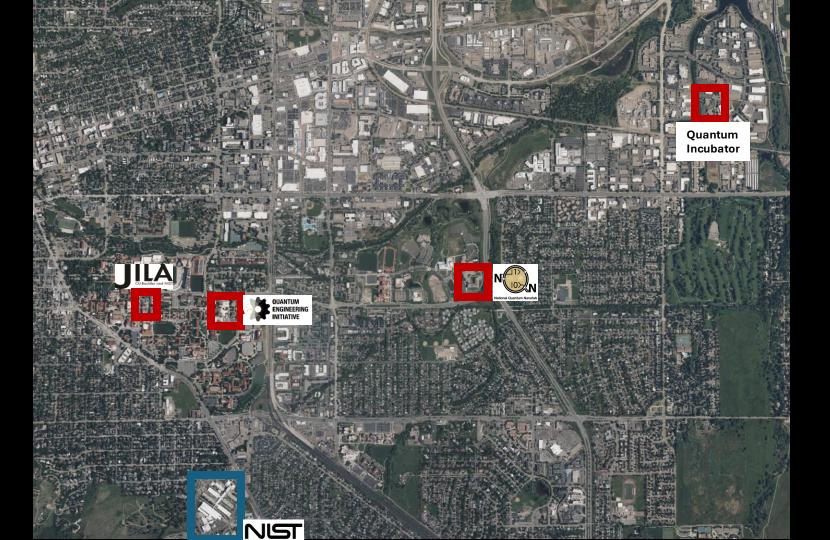






The Quantum Incubator: Boulder, CO









Goals:

- Creating impact for quantum science through translational research
- Building a quantum engineering workforce
- Strengthening connections to local and regional partners







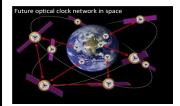
New Facilities:



New Faculty & Collaborations:

- 3 recent hires in quantum + new endowed chair
- 5 adjoint faculty appointments for NIST researchers in ECEE and other CEAS departments

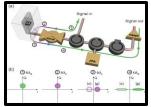
New Research:



Quantum Sensing

Quantum Networks

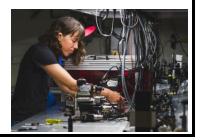




Quantum Computing

New Curriculum:

- Quantum engineering minor
- Quantum engineering MS (coming soon)
- Connections to our quantum industry



The National Quantum Nanofab (NQN)



The NSF has granted \$20M for a new quantum nanofabrication facility at CU Boulder



- 2900 sq ft ISO 5/6 clean room with 600 sq ft mechanical room + contained equipment
- New construction addition to existing building on CU East Campus
- Adjacent to existing COSINC cleanroom facilities
- Started: July 2024, Estimated completion: June 2029



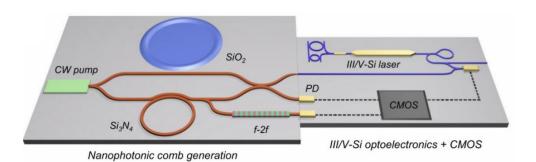


The National Quantum Nanofab (NQN)



"Quantum Machine Shop" of the 21st Century

- Unique process development for the most challenging nanointegration of atomic-photonic quantum devices and materials in challenging environments and packages
- 30 state-of-the-art processing tools
- World-leading community of AMO scientists, engineers & industrialists to develop fabrication and integration protocols
- Fully open access for users around the country, including for other microfabrication needs of value to multiple communities

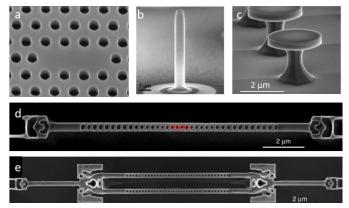


FECVD oxide: 3 μm—
Silicon Nitride: 250 μm
Si substrate: 500 μm—
(a)

Photonic chip

300 μm

Atomic-photonic heterogeneous integration



Low-loss nanophotonic cavities

The impact: a unique quantum ecosystem



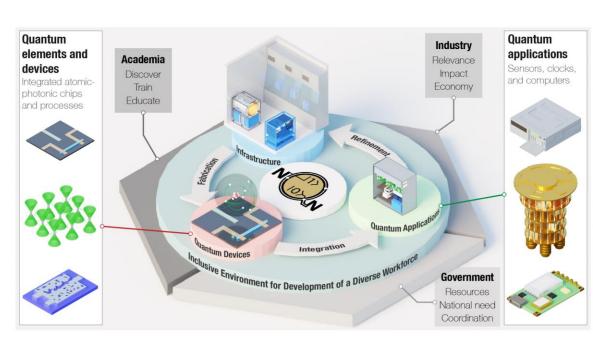
Leverage Boulder's

- Best-in-world expertise in quantum science with photons, atoms and ions
- Unique combination of academia, industry and government
- Entrepreneurial quantum environment

for Impact by ...

- Rapid cycling "from lab to fab"
- Attracting and training the next generation diverse quantum workforce
- Sharing knowledge openly
- Accelerating innovation that is critical to our national and economic security

National Impact Propelled by Boulder's Quantum Ecosystem







I&E Workshop Agenda

- 1. Introductions, Goals, and Outcome (5 Minutes)
- 2. I&E Vision & Ecosystem Overview Presentation (15 Minutes)
 - CEAS I&E Vision, Metrics, and Current Ecosystem
 - Potential Engagement Program Examples
- 3. Breakout Sessions (40 Minutes)
 - Undergraduate Students: Where do we invest?
 - Graduate Students & Postdocs: Where do we invest?
 - Faculty: Where do we invest?
 - Alumni & Industry Partners: How do we partner?
- 4. Report Out & Discussion (30 Minutes)

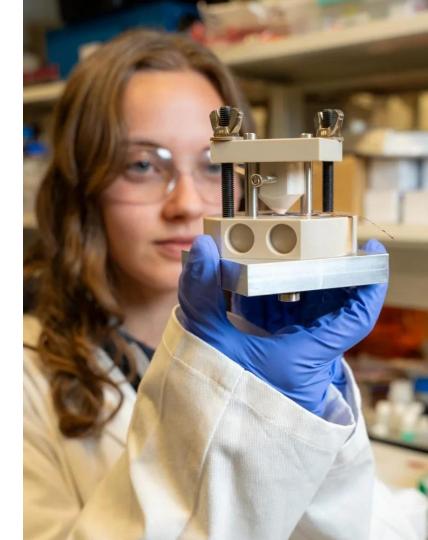


I&E Workshop Agenda

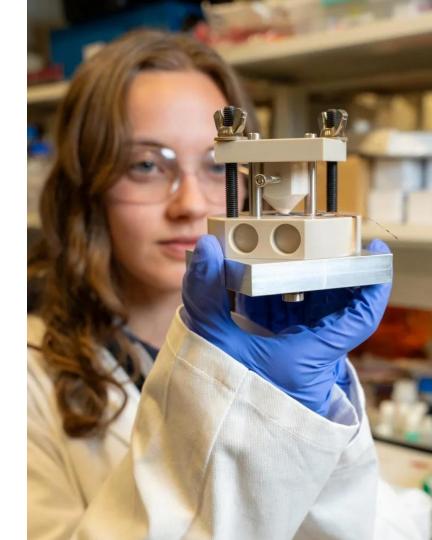
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 - Potential Engagement Program Examples



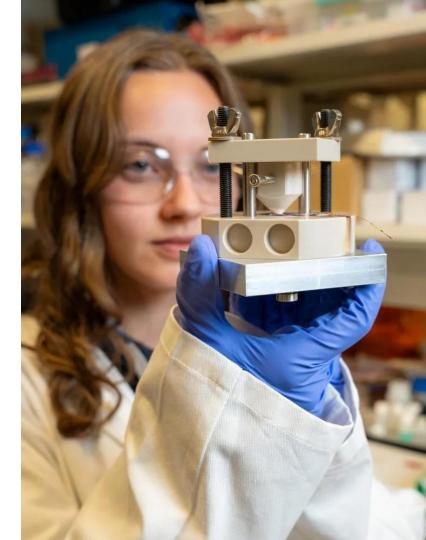
Research and Innovation. CU Engineering is a comprehensive research college that generates sustainable solutions to pressing societal challenges.



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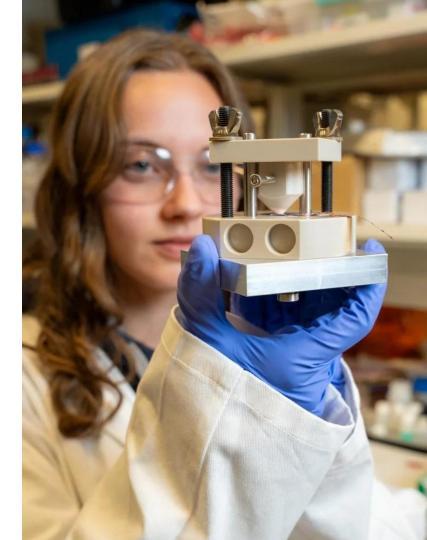
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To enable this vision, we will:

Invest in training and education for faculty and students to promote entrepreneurial work and the development of intellectual property (e.g., creation of new companies, patents, technology licenses, software distribution, etc.).



CU Innovation & Entrepreneurship

CU has emerged as a world-recognized powerhouse in innovation and entrepreneurship

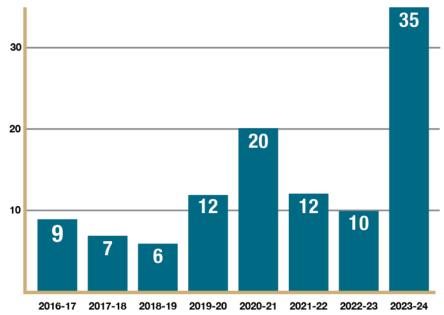
\$426M

Capital Raised by Portfolio Companies

License and Option Agreements

Startups Launched through CU Venture Partners

Startup Creation 2016-24



CU Innovation & Entrepreneurship

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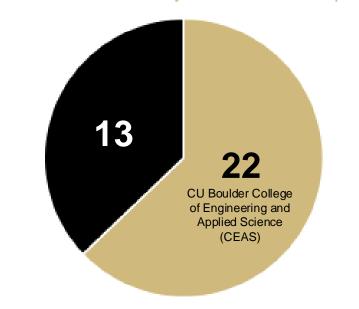


CU Innovation & Entrepreneurship

CU has emerged as a world-recognized powerhouse in innovation and entrepreneurship

Most	startups in	a single	e year
Rank	University	Fiscal Year	Startups
	Stanford	2022	38
2	CU Boulder	2024	35
3 (tie)	Stanford	2016	32
3 (tie)	MIT	2018	32
3 (tie)	MIT	2020	32
6 Uı	niversity of Michigan	2020	31
7 (tie) C	Columbia University	2018	29
7 (tie)	MIT	2017	29
9 (tie)	Stanford	2015	28
9 (tie)	MIT	2015	28
9 (tie)	Stanford	2018	28
7 1			

FY 2023-24 University of Colorado Startups



CEAS I&E Ecosystem





The CEAS and CU Boulder I&E Ecosystem Provides Support for Faculty and Students from Inspiration to Impact

Undergraduate Students

- Engineering Management (EMEN)
 Undergraduate Minor in Engineering
 Entrepreneurship
- CatalyzeCU: A summer-long startup accelerator program designed for CU Boulder student- and faculty-led ventures (no CU Boulder IP):
 - 58 Teams over 10 Years (28 Still in Business; 2 Acquisitions; \$30M Raised
 - 52% Diverse Founding Teams
- ESCEND® Collaborative Space
- Other campus I&E programs
- New Integrated Business and Engineering (IBE) Major (Fall 2026)

Faculty, Graduate Students, & Postdocs

- Engineering Management (EMEN) Graduate Certificate in Innovation & Entrepreneurship
- Starting Blocks (NSF I-Corps™): Three-Week Customer Discovery Workshop
- Research-to-Market (NSF I-Corps™): Four-Week Customer Discovery Program
- Center for Translational Research (CTR): Proposal development support for SBIR/STTR, OEDIT, etc.
- Lab Venture Challenge: Competitive \$125,000 grants to CU Boulder Innovators (based on CU-Boulder IP)
- ASCENT Deep Tech Accelerator: Four-month accelerator program for CU Startups
- EMBARK Deep Tech Startup Creator: Connects (and funds) entrepreneurs to commercialize CU IP
- Buff Venture Fund: VC that invests in CU Boulder Startups
- Industry-Sponsored Research: Academic-Industry Partnerships (e.g., NSF IUCRC, NSF TIP, Direct Industry Funding)

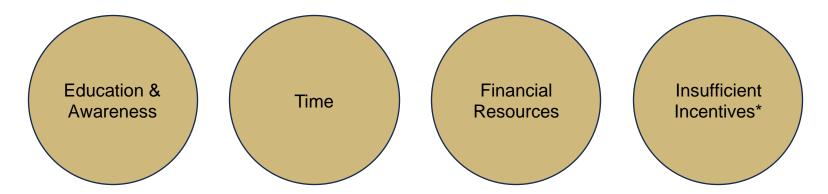
CEAS I&E Metrics

How do we engage more members of the CEAS community in the I&E ecosystem?



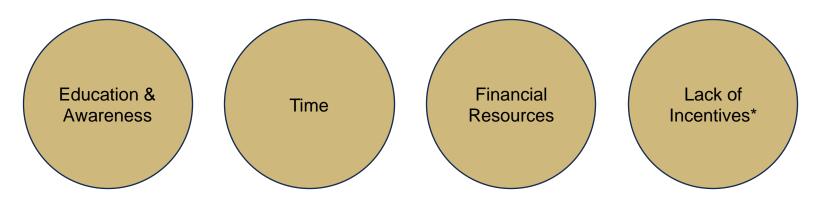
CEAS I&E: Challenges for Engagement

Why do CEAS faculty, students, and postdocs choose not to engage?



CEAS I&E: Challenges for Engagement

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Potential Engagement Program Examples:

- Undergraduate Student Scholarships for EMEN Engineering Entrepreneurship Minor
- Graduate Student Scholarships for EMEN Innovation & Entrepreneurship Certificate
- I&E Professional Masters Program (PMP)
- Undergraduate & Graduate Student I&E Internship Program
- Faculty I&E Fellowship Program (e.g., Course Buy-Out, Summer Salary)
- Graduate Student and Postdoctoral I&E Fellowship Program (e.g., Summer Funding)
- Graduate Student and Postdoctoral Scholarships for ASCENT Deep Tech Accelerator
- Joint Industry-Academia Research and Technology Development Program

*IP Royalty Incentive Exists for Individual Inventors of CU Boulder IP

I&E Workshop Agenda

- 1. Introductions, Goals, and Outcome (5 Minutes)
- 2. I&E Vision & Ecosystem Overview Presentation (15 Minutes)
 - CEAS I&E Vision, Metrics, and Current Ecosystem
 - Potential Engagement Program Examples
- 3. Breakout Sessions (40 Minutes)
 - Undergraduate Students: Where do we invest?
 - Graduate Students & Postdocs: Where do we invest?
 - Faculty: Where do we invest?
 - Alumni & Industry Partners: How do we partner?
- 4. Report Out & Discussion (30 Minutes)



I&E Workshop Groups

GROUP A:

CEAS Undergrad Students

Facilitator: Karen Crofton

Susie See

Jon R. Goldsmith

Mina McCullom

Dennis Pretti

Paul Rady

Robert Sawaya

GROUP B:

CEAS Grad Students & Postdocs

Facilitator: Anthony Straub

VP Rep: Bryn Rees

Bhavana Chhabra

Karen Furlani

Terry Hogan

Amy L. Kramer

GROUP C:

CEAS Faculty

Facilitator: Greg Whiting

VP Rep: Marta Zgagacz

Edward F. Crawley

Jiong Ma

Anne B. Smead

Michael Gazarik

GROUP D:

CEAS Alumni & Industry Partners

Facilitator: Mike Gooseff

Advancement Rep: Kristen

Gallagher

VP Rep: Amy Dodenhoff

John Donatelli

Jeff Gustavson

Steven Smith

Ed Ward

Daniel Ivanoff

I&E Workshop

Group A (Undergrads), B (Grad/Postdocs), and C (Faculty)

Question: How can we best incentivize the engagement of CEAS (a) undergraduate students, (b) graduate students and postdocs, or (c) faculty in the entrepreneurship education and commercialization ecosystem at CU.

Question: What are some examples of new CEAS I&E seed programs for (a) undergraduate students, (b) graduate students and postdocs, or (c) faculty that have the potential for scalability, sustainability, and long-term impact?

Group D (Alumni & Industry Partners)

I&E Workshop

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Group D (Alumni & Industry Partners)

Question: How can CEAS alumni and industry partners support and/or leverage CU Boulder's entrepreneurship education and commercialization ecosystem?

I&E Workshop

Group A (Undergrads), B (Grad/Postdocs), and C (Faculty)

Question: How can we best incentivize the engagement of CEAS (a) undergraduate students, (b) graduate students and postdocs, or (c) faculty in the entrepreneurship education and

commercialization ecosystem at CU.

Question: What are some examples of new CEAS I&E seed programs for (a) undergraduate students,

(b) graduate students and postdocs, or (c) faculty that have the potential for scalability,

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Group D (Alumni & Industry Partners)

Question: How can CEAS alumni and industry partners support and/or leverage CU Boulder's entrepreneurship education and commercialization ecosystem?

THINK* On Your Own

~5 Minutes

PAIR

Discuss With a Partner

~10 Minutes

SHARE**

With the Group

~25 Minutes

*Write Each Unique Idea on ONE Sticky Note

**Identify the top ~2-3 Emerging Ideas

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Report Out & Discussion

Next Steps





Agenda

Elevating Our Reputation Through Innovation

- Welcome & State of the College
- Workshop: Elevating Our Reputation
- Lunch with Chancellor Schwartz
- Quantum Engineering
- Workshop: Innovation & Entrepreneurship
- Executive Session

