



FOUR CAMPUSES UNITED  
**ALL FOUR:COLORADO**

**Economic Impact Study**

Economic Contribution of the University of Colorado  
on the State and Counties of Operations

December 2021



University of Colorado

Boulder | Colorado Springs | Denver | Anschutz Medical Campus

UNIVERSITY OF COLORADO

# Economic Contribution on the State and Counties of Operations, FY2020-FY2021

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**December 2021**

**Prepared for:**

Vice President for Budget and Finance and Chief Financial Officer

**Conducted by:**

**BUSINESS RESEARCH DIVISION**

Leeds School of Business

University of Colorado Boulder

420 UCB

Boulder, CO 80309-0420

[colorado.edu/business/brd](http://colorado.edu/business/brd)



**Leeds** School of Business

UNIVERSITY OF COLORADO **BOULDER**

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## ECONOMIC CONTRIBUTION OF THE UNIVERSITY OF COLORADO SUMMARY

The University of Colorado is the nexus of teaching, research, and healthcare that reaches far beyond economic statistics that quantify purchases and payroll in the state of Colorado. In addition, the university’s economic contributions resonate as an economic engine driven by education, clinical, and research expenditures.

The University of Colorado comprises four campuses—the University of Colorado Boulder (CU Boulder), the University of Colorado Colorado Springs (UCCS), the University of Colorado Denver (CU Denver), and the Anschutz Medical Campus (CU Anschutz), as well as the system administration offices in Denver. This public university serves “Colorado, the nation, and the world through leadership in high-quality education and professional training, public service, advancing research and knowledge, and state-of-the-art health care.”

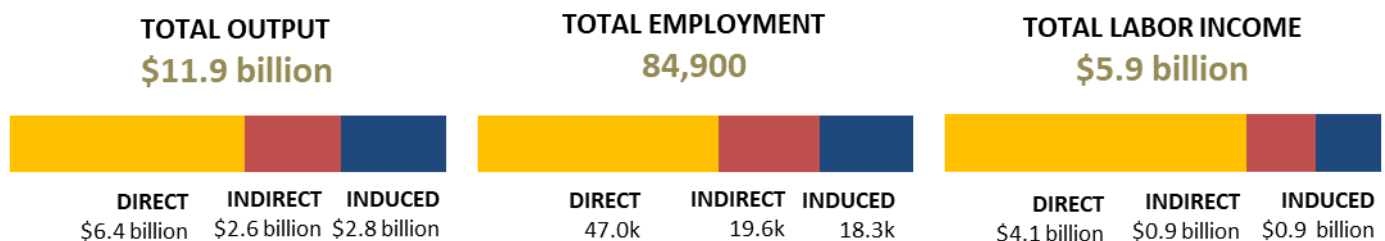
The University of Colorado is an economic driver in the state of Colorado, employing thousands of workers, buying from local vendors, importing investment, educating the local workforce, and exporting research discoveries. Aside from the direct impact, the university facilitates company growth and job creation through research, tech transfer, and spinoff companies. This study provides a snapshot of the university’s economic contribution to the state. In addition, the economic contribution of the system and the four campuses (CU Boulder, UCCS, CU Denver, and CU Anschutz) to their

respective communities is detailed for fiscal year (FY) 2020 and 2021. This study was conducted in cooperation with the University of Colorado System and the individual campuses.

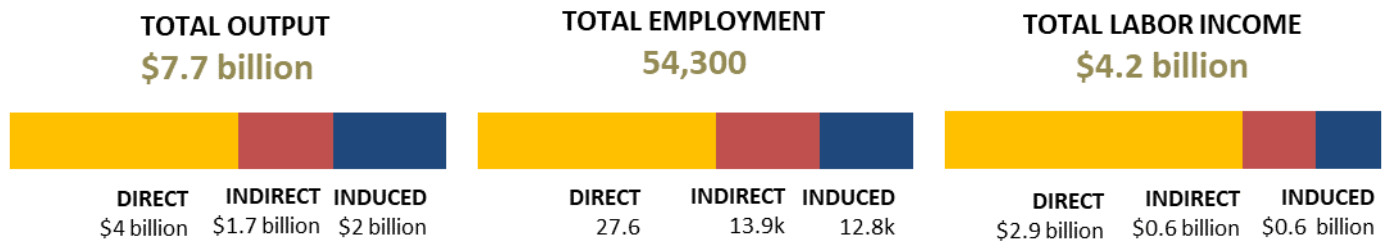
The results of the economic contribution analysis for the University of Colorado and its affiliates at the CU Anschutz Medical Campus, including University of Colorado Hospital and Children’s Hospital Colorado, for FY2021 indicate that the University of Colorado System:

- Including the impact stemming from healthcare on the Anschutz campus, the economic impact is **\$11.9 billion** for the state of Colorado.
- Impacts stemmed from employee earnings, student worker earnings, operating expenditures, construction, research, and visitors.
- Other acknowledged impacts stem from innovation, technology transfer, skills and training, and alumni in the workforce.
- The University alone (excluding hospitals) generated a total economic impact of \$7.7 billion, for the state of Colorado.
- Supported a total of **54,900 jobs**, mostly in the Boulder MSA, Denver MSA, and Colorado Springs MSA.
- Generated labor income of **\$5.9 billion**.

**Figure 1: University of Colorado System Statewide Economic Impact, FY2021**



**Figure 2: University of Colorado System Statewide Economic Impact (excluding affiliates), FY2021**



**Table 1: University of Colorado Economic Contribution (Direct, Indirect, and Induced), FY2021**

Campus	Employment	Labor Income (In Millions)	Value Added (In Millions)	Output (In Millions)
CU Boulder	22,381	\$1.5	\$2.2	\$3.0
UCCS	3,655	\$0.2	\$0.3	\$0.4
CU Denver	7,378	\$0.4	\$0.6	\$0.9
CU Anschutz	20,062	\$2.0	\$2.6	\$3.2
System	869	\$0.1	\$0.1	\$0.2
<b>University of Colorado</b>	<b>54,345</b>	<b>\$4.2</b>	<b>\$5.9</b>	<b>\$7.7</b>
Anschutz Campus Hospitals Impact (subtotal)	30,601	\$1.8	\$2.3	\$4.2
<b>Total Impact</b>	<b>84,946</b>	<b>\$5.9</b>	<b>\$8.2</b>	<b>\$11.9</b>

Note: Anschutz Campus hospitals are independent enterprises and not reflected on University of Colorado financial statements.

**Additional Key Findings**

- Education** – With education as a core element of this mission, the University of Colorado enrolled **67,069 students** in the Fall of 2021 and awarded **18,174 degrees** in FY2021.
- Alumni** – Over **296,000 alumni** reside in the state, contributing to Colorado’s economic and social fabric. Evidence of the university’s educational impact can be found in the leadership of private businesses, teachers in classrooms, health care professionals, and policymakers. These alumni are an integral part of the Colorado labor force, particularly in the high-tech workforce, and contribute to the state’s rank as second in the nation for educational attainment.
- Operations** – The university operated on **\$4.2 billion in noncapital revenues** in FY2020. A significant portion of this leveraged funding was related to sponsored programs and other restricted fund activity, primarily associated with research activity.
- Research Awards – Sponsored program awards and CU Foundation gifts, totaling \$1.4 billion in FY2021,** were concentrated on the CU Anschutz and the CU Boulder campuses. Nearly 68% of the sponsored research awards came from Federal government with the predominant funding agencies being NASA, the National Science Foundation, Health and Human Services, and the Department of Defense. Some federal research laboratories (e.g., joint institutes) are located in Colorado because of the university, which has helped create the relatively high concentration of federal research laboratories in the state. Research awards alone totaled \$1.23 billion in in FY20 and \$1.3 billion in FY21.
- Technology Transfer** – Administered by Venture Partners at CU Boulder and CU Innovations, technology transfer is the conduit for technology commercialization. Venture Partners’ startup portfolio in FY2020 disclosed **175 inventions**, recorded **59 license and option agreements**, and had **12 startups** spun out of university technology. CU Innovations’ startup portfolio raised **\$170 million in funding**, raised **\$50 million for a venture fund**, completed over 50 industry deals, and engaged in outreach and education with over 1,700 individuals. The University of Colorado was **ranked #20** in a 2020 global ranking of the top 100 universities granted U.S. utility patents
- Student and visitor spending** – A survey of students found their spending totaled **\$960 million** and **\$959.5 million** in FY2020 and FY2021, respectively. Spending estimates are based on students who indicated they

would not be in Colorado if they were not enrolled at CU. Visitor spending in Colorado related to the campuses was an estimated **\$45.1 million** and **\$45 million** in FY2020 and FY2021, respectively.

- **Research** – The University of Colorado collaborates in a research triangle that includes universities, businesses,

and federal laboratories. From direct expenditures and spinoff technologies to collaborative research and an educated workforce, the University of Colorado strengthens Colorado's economy. Research expenditure activities alone had a \$3.1 billion impact.

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## METHODOLOGY

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### ***Economic Contribution and Impact***

Economic contributions on Colorado were estimated by examining operating expenditures and capital expenditures, including employee salaries and benefits. This approach accounted for the leakage that occurs when research grants lead to a portion of purchases made outside the state.

Furthermore, this study estimated the multiplicative impacts of direct expenditures on other industries in the economy through input-output modeling by using IMPLAN, a widely used economic modeling software. Additional estimates were made for student and visitor expenditures. Benefits such as community service, outreach, and fundraisers are described to illustrate additional community benefits derived from the university's presence but were not directly quantified when determining the overall economic contribution. The study also compared CU to peer institutions through a review of comparable studies. This study did not estimate the economic contributions of alumni working in Colorado, nor did it estimate the economic impacts of spinoff companies or technologies beyond the licensing agreements.

### ***Data***

Data requests were made to the University of Colorado System to obtain information on employment, salaries, expenditures, construction, research, and student spending for all campuses. Additional information was sourced from publicly available data on the University of Colorado website.

Employment and salary data were provided by ZIP code and by campus, allowing for the allocation of employee spending to the counties in which they reside. Employees spend their earnings on a broad range of goods and services, including housing, energy, food, clothes, etc. Employment counts and employee residence data are based on a point in time in fall for the fiscal year.

Expenditure data were provided by vendor ZIP code in order to identify (1) the in-state versus out-of-state spending (i.e., leakage), and (2) the counties/metropolitan statistical areas (MSAs) where spending occurred. The procurement service center (PSC) report contained all expenditures, including construction- and research-related expenditures, but excluded purchasing card transactions made by employees. Purchasing card and

travel card transactions were not provided, but card purchases account for a relatively small overall portion of spending. These purchases were assumed to follow the geographic profile of PSC data.

Given the absence of a public education category in the input-output model, operating expenditures were assigned as Private Education in the IMPLAN model, or in the industries representing purchasing vendors.

Construction projects were identified by campus. The construction expenditures were included in the vendor report with accompanying ZIP codes, and the university identified specific projects and quantified the value of current construction by campus. Estimated construction expenditures were assigned as Nonresidential Building in the IMPLAN model.

To the extent possible, research expenditures were identified, and the resulting economic contribution was calculated for each campus and for the overall system. This was accomplished by identifying research expenditures by funding type, and apportioning research faculty and staff salaries to research functions. For full, associate, and assistant professors, 40% of salaries were assigned to research in this study; 100% of other research faculty and staff were assigned to research in this study. Research funding and employment were identified by campus, and expenditures were included in the vendor report with accompanying ZIP codes.

For student expenditures and visitation data, the research team relied on a survey conducted by the university in 2016, with the values adjusted to FY2020 and FY2021 based on inflation and enrollment. This survey captured student spending habits and identified the source of funds (in-state versus out-of-state). Expenditures were calculated for students who would not be in Colorado if they were not enrolled at the university. Similarly, survey data estimated Colorado visitation due to students. This information does not include visitation related to visiting professors and researchers, conventions, athletics, or collaborative research visits; thus, this a conservative estimate of visitation impacts. These expenditures were assigned by spending activity in the IMPLAN model.

This study provides an estimate of economic contributions using ZIP codes of vendors and employees in procurement and human resource databases. The research team



believes this conservatively estimates the economic contribution of the University of Colorado since some vendors are located in the state, but the parent company's accounting office, where the check is mailed, is located in another state. Likewise, some faculty, staff, and students have a home of record in another state, but they are actually living and working in Colorado. Additional

research could be conducted to reclassify these expenditures and residences. Furthermore, contract vendor activity was not captured in this study (e.g., football game vendors, basketball game vendors, etc.), nor did this study estimate the economic contributions of alumni living and working in the state of Colorado.

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## DEFINITIONS

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**Gross Domestic Product (GDP):** A measure of economic activity, GDP is the total value added by resident producers of final goods and services.

**Gross Output (Output):** The total value of production is gross output. Unlike GDP, gross output includes intermediate goods and services.

**Value Added:** The contribution of an industry or region to total GDP, value added equals gross output, net of intermediate input costs.

**Colorado Springs Metropolitan Statistical Area (MSA):** El Paso County and Teller County.

**Boulder MSA:** Boulder County.

**Denver MSA:** Adams, Arapahoe, Broomfield, Denver, Douglas, Jefferson, Clear Creek, Gilpin, Park, and Elbert counties.

**CU Boulder:** University of Colorado Boulder.

**CU Denver:** University of Colorado Denver.

**UCCS:** University of Colorado Colorado Springs.

**CU Anschutz:** Anschutz Medical Campus.

**University of Colorado System:** President's Office and administration.

**System:** The four university campuses and the President's Office and administration.

**Fiscal Year:** July 1–June 30

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## LITERATURE REVIEW

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By their nature, universities have a profound impact on their respective communities, regions, and states, both in terms of economic contributions and in the area's cultural and social fabric. Economically, direct and indirect spending by the institution, employees, students, and visitors can often total in the billions. A review of recently conducted economic impact studies of peer universities reveals a range of impacts. Although the studies used different methodologies, thus making direct comparisons difficult, the exercise highlights the important role universities play. For a more detailed look at each report, see Appendix 1.

The impact of Pac-12 member universities on their state and local economies was examined through various economic impact studies. The total impact of each university includes both direct and indirect/induced impact. During the 2018–19 fiscal year, the University of California System (ten campuses including UCLA, UC Berkeley, UCH) contributed over \$82 billion in total output, while supporting over 529,000 jobs and \$37.6 billion in salary and benefits. UCLA had a total economic impact of over \$8.4 billion while supporting nearly 56,000 jobs. The University of California, Berkeley (UC Berkeley) generated an estimated \$6.3 billion in economic impact during the 2018-19 fiscal year, of which almost \$4.6 billion was in value added, and supported over 37,000 jobs. The University of Southern California (USC) was responsible for over \$8.1 billion in total output during the 2015–16 fiscal year and directly employed 30,900 people. Stanford had an economic impact of \$2.1 billion in Santa Clara and San Mateo Counties in 2006, with students and visitors spending a combined \$348 million in the surrounding communities.

The four Pac-12 universities located in the Pacific Northwest (Washington, Washington State, Oregon, Oregon State) all had a substantial impact on their respective state and local economies. The University of Washington (UW) generated \$15.7 billion in economic activity during the 2018 fiscal year, including a direct impact of \$7.8 billion. UW's economic impact supported or sustained 1 out of every 37 jobs in Washington. During FY2014, Washington State University (WSU) generated

almost \$19 for every dollar the state invested in the university. WSU generated a total economic impact of \$3.4 billion within the state of Washington in the 2014 fiscal year and employed almost 18,000 workers. The University of Oregon (UO) supported over 22,800 employees in 2017–18, while contributing \$2.3 billion to the state economy. Oregon State University's (OSU) impact to the state economy was over \$2.3 billion in 2017 and around 30,000 jobs. Of OSU's total impact, \$989 million was direct, \$155 million was indirect, and \$1.2 billion was induced.

Universities located in the Mountain/Southwest region (Arizona, Arizona State, and Utah; excluding Colorado) create substantial output. In the 2017 fiscal year, the University of Arizona (UA) accounted for \$11.1 billion in economic impact and \$451.7 million in state and local tax revenue. Arizona State University (ASU) supported nearly 54,000 jobs, approximately 19,000 of which were directly employed by the university in the 2020 fiscal year. ASU's total economic impact in 2020 was estimated at \$4.6 billion in state GDP. The University of Utah had a total economic contribution of \$11 billion in 2019, supporting 83,100 jobs and generating \$4.6 billion in earnings.

Additional CU peer institutions are found within the University of Massachusetts System (UMass) and University of Texas System (UTS). The University of Massachusetts System generated \$7.5 billion in economic activity and supported 49,315 jobs (17,622 direct) in the state in FY2018. UMass-Boston, a selected peer of CU Denver and UCCS, calculated its impact at \$1.2 billion, and UMass-Lowell, a CU Denver peer, calculated its impact at \$1.2 billion. The University of Texas System comprises nine academic and six health-related institutions within the state of Texas, and its 2005 study estimates its annual impact at \$12.8 billion on the Texas economy and supports 215,715 jobs. CU peer institutions at UTS include the University of Texas-El Paso (UCCS), The University of Texas Health Science Center at San Antonio (CU Anschutz), and The University of Texas Health Science Center at Houston (CU Anschutz). Looking within the state of Colorado, the Colorado State University System supported around 22,785 jobs and \$237.7 million in income and sales tax revenue in FY2019-20.

## THE UNIVERSITY OF COLORADO OVERVIEW

The University of Colorado is a research university that educates students, conducts research, commercializes technology, and creates companies. This section provides an overview of the university’s contributions.

### STUDENTS

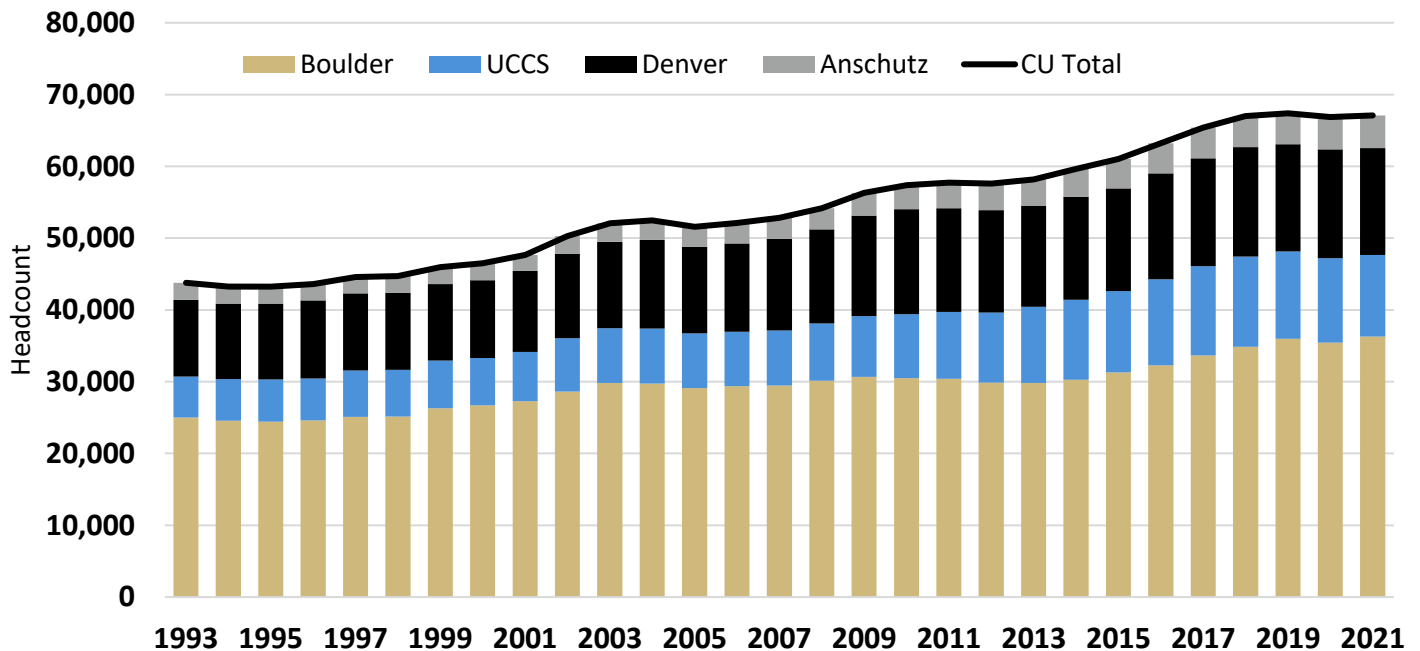
The University of Colorado recorded 66,872 students in Fall 2020, falling 0.8% year-over-year, and 67,069 students in Fall 2021, growing 0.3% year-over-year. Student headcount is 6.1% higher than five years ago (Fall 2016). On a full-time equivalent (FTE) basis, the university enrollment was 59,748 for FY2020, growing 0.3% year-over-year, and 59,652 for FY2021, falling 0.2% year-over-year. Enrollment in FY2021 was up 10% from FY2016.

Based on the FTE data, CU Boulder recorded the largest enrollment in FY2021 (31,816 students, 53.3% of the

total), followed by CU Denver (19.9%), UCCS (16.1%), and CU Anschutz (10.7%). On a full-time basis, 76.4% of students were undergrads, while 23.6% were graduate students. More than 70% of the student body was Colorado residents. The ratio of nonresident students is limited by Colorado statute.<sup>1</sup>

In FY2020, the University of Colorado awarded 17,678 degrees (including double majors) to 17,099 recipients. 12,144 bachelor’s degrees, 4,194 master’s and specialist degrees, 21 graduate certificates, and 1,319 doctorate and professional degrees. CU Boulder accounted for over half of awarded degrees, followed by CU Denver, UCCS, and CU Anschutz. Awarded degrees increased to 18,174 in FY2021 (12,421 bachelor’s degrees, 4,343 master’s and specialist degrees, 52 graduate certificates, and 1,358 doctorate and professional degrees).

Figure 3: Total Enrollment by Campus, Fall 1993–Fall 2021



Source: University of Colorado, Budget and Finance Office.

<sup>1</sup>According to statute 23-1-113.5, nonresident students are limited to 45% of total enrollment. “The percentage of students enrolled at each campus of the university of Colorado system, at Colorado state university, at the university of northern Colorado, or at the Colorado school of mines who are in-state students is not less than fifty-five percent of the total student enrollment at each campus of the university of Colorado system, at Colorado state university,

at the university of northern Colorado, or at the Colorado school of mines, respectively, including undergraduate and graduate students, calculated on a three-year rolling average and excluding foreign students and students enrolled solely in online courses.” <http://leg.colorado.gov/sites/default/files/images/olls/crs2018-title-23.pdf> (page 44), accessed February 10, 2020.

**Table 2: Enrollment by Campus, Fall 2020 and Fall 2021**

Campus	CU Boulder		UCCS		CU Denver		CU Anschutz		Total	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
Undergraduate - resident	17,392	16,850	8,532	8,080	9,226	8,725	438	408	35,588	34,063
Undergraduate - nonresident	11,909	12,963	1,235	1,387	1,386	1,447	32	35	14,562	15,832
Graduate - resident	3,898	3,855	1,682	1,625	3,813	3,827	3,074	3,069	12,467	12,376
Graduate - nonresident	2,242	2,621	298	293	737	885	978	999	4,255	4,798
<b>Total</b>	<b>35,441</b>	<b>36,289</b>	<b>11,747</b>	<b>11,385</b>	<b>15,162</b>	<b>14,884</b>	<b>4,522</b>	<b>4,511</b>	<b>66,872</b>	<b>67,069</b>

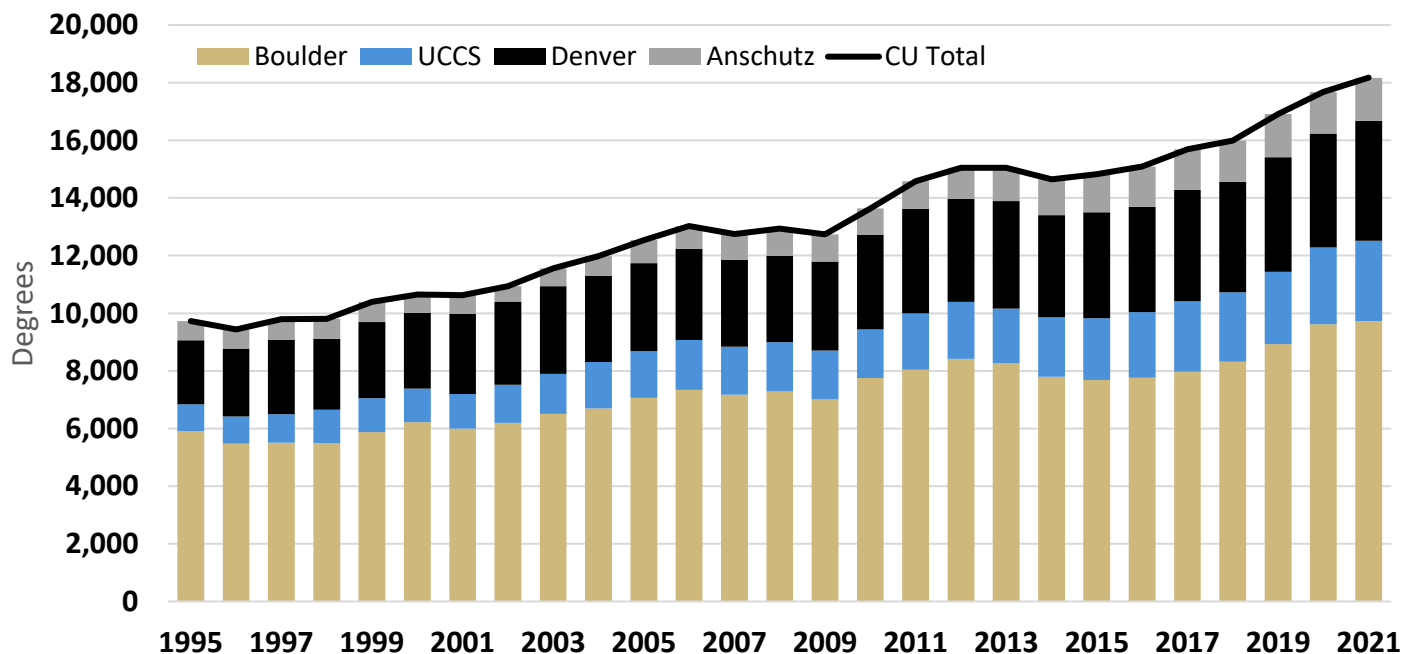
Source: University of Colorado, Budget and Finance Office, Student Headcount Enrollment.

**Table 3: FTE Enrollment by Campus, FY2020 and FY2021**

Campus	CU Boulder		UCCS		CU Denver		CU Anschutz		Total	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
Undergraduate - resident	16,096	16,181	7,705	7,332	7,917	7,804	554	500	32,272	31,816
Undergraduate - nonresident	11,778	11,435	1,179	1,074	1,317	1,204	42	42	14,317	13,755
Graduate - resident	2,526	2,619	993	1,016	2,100	2,436	3,954	4,225	9,573	10,297
Graduate - nonresident	1,618	1,584	171	164	421	444	1,378	1,592	3,587	3,784
<b>Total</b>	<b>32,018</b>	<b>31,820</b>	<b>10,047</b>	<b>9,586</b>	<b>11,754</b>	<b>11,889</b>	<b>5,928</b>	<b>6,358</b>	<b>59,748</b>	<b>59,652</b>

Source: University of Colorado, Budget and Finance Office, Student FTE Enrollment. Note: Totals may not sum due to FTE rounding.

**Figure 4: Total Degrees Awarded by Campus, FY1995–FY2021**



Source: University of Colorado, Budget and Finance Office.

**ALUMNI**

The university has a long history of educating students and preparing them to be actively engaged, contributing members of society. Alumni records indicate that over 296,000 graduates reside in the state of Colorado, including business leaders, policymakers, educators,

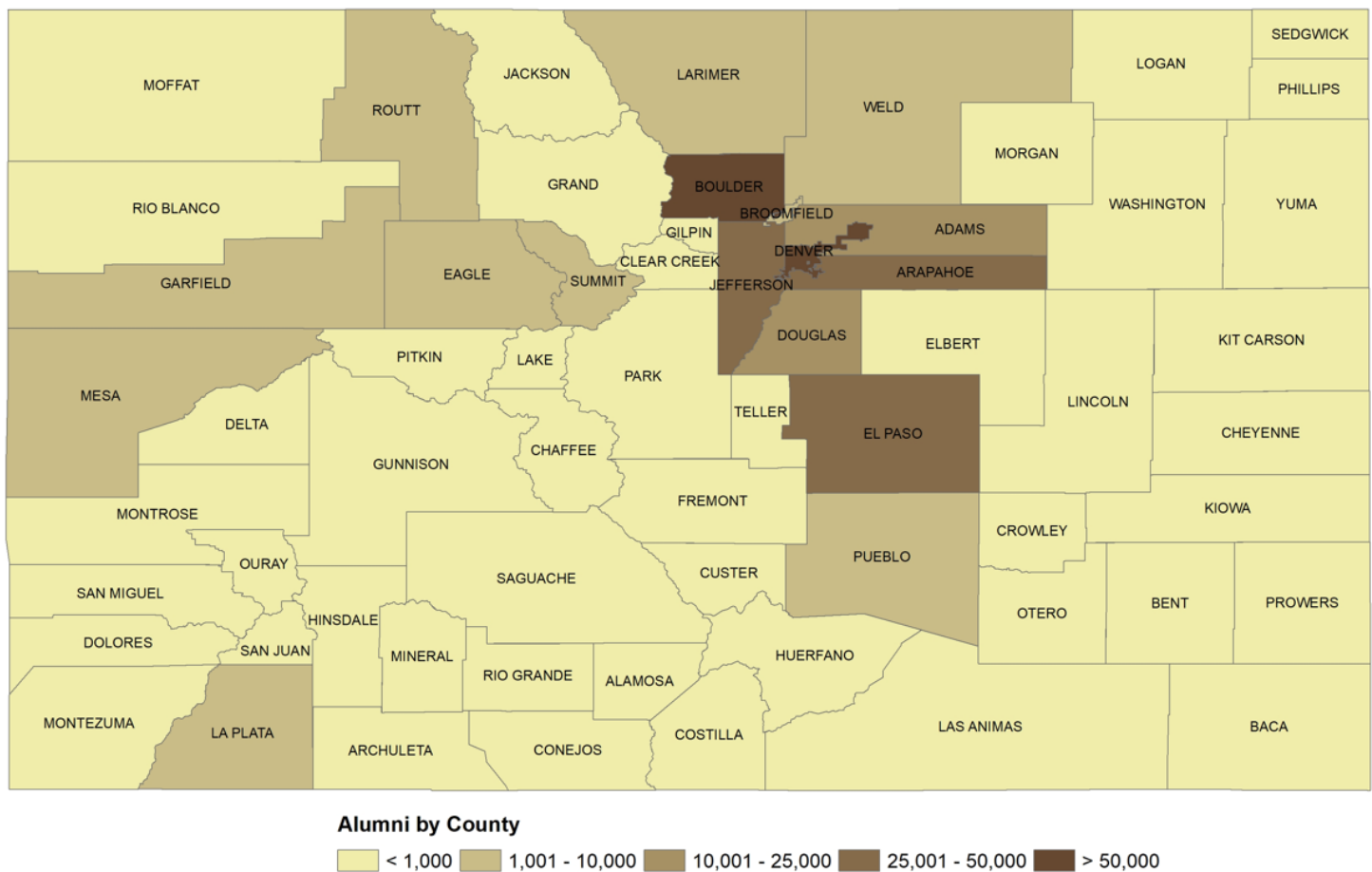
health care workers, engineers, and many others. CU Boulder has the largest number of in-state alumni, totaling 149,471, followed by CU Denver (77,870), UCCS (37,221), and CU Anschutz (30,542).

**Table 4: Alumni by Campus and Location, FY2020**

Campus	CU Boulder	UCCS	CU Denver	CU Anschutz	Total
Boulder MSA	47,184	460	4,226	1,942	53,981
Denver MSA	75,530	6,227	65,574	22,858	171,058
Colorado Springs MSA	5,911	27,138	1,888	1,299	36,290
Rest of Colorado	20,847	3,397	6,182	4,443	35,025
<b>State Total</b>	<b>149,471</b>	<b>37,221</b>	<b>77,870</b>	<b>30,542</b>	<b>296,354</b>

Source: University of Colorado, Office of Advancement.  
 Note: Total includes CU System and Foundation alumni.

**Figure 5: University of Colorado Alumni by County, FY2020**



**NONEDUCATION SPENDING AND VISITATION**

Student spending is similar in nature to offsite employee spending, with expenditures ranging from food and rent to clothing and entertainment. However, spending habits tend to vary from employee spending as do the sources of funds. The University of Colorado System conducts student spending surveys in order to quantify spending habits. The results are for students who would not be in Colorado if they were not enrolled at the university; thus, this is spending that otherwise would not have occurred in the state nor in the metropolitan areas. Statewide, student

spending was estimated at \$960 million in FY2020 and \$959.5 million in FY2021. In FY2021, CU Boulder accounted for 67% of the total; CU Denver, 15%; CU Anschutz, 8%; and UCCS, 10%. Nearly 47% of the spending was identified as housing expenditures (an increase from 38% in 2009), followed by groceries (12%) and books (9%).

Visitors bring substantial ancillary benefit to university communities. In a survey of students, the university gained insight into the number of visitors and amount of spending related to students (e.g., parents’ weekend). Visitor

spending in Colorado related to the four campuses was an estimated \$45.1 million in FY2020 and \$45 million in FY2021. Most of the visitor spending was related to CU Boulder (71%), followed by CU Denver (13%), UCCS (9%),

and CU Anschutz (8%).<sup>2</sup> Other visitor impacts, including those from visiting professors and researchers, have not been quantified in this study, thus, visitor impacts are conservative at best.

**Table 5: Visitor Spending and Student Spending (in millions) for students attracted and retained by CU <sup>a</sup>, FY2020**

Spending	CU Boulder	UCCS	CU Denver	CU Anschutz	Total
<b>Students<sup>a</sup></b>					
Housing	\$310.4	\$47.0	\$65.3	\$25.3	\$448.0
Utilities	\$39.7	\$7.7	\$11.1	\$5.0	\$63.6
Groceries	\$77.7	\$9.3	\$16.9	\$9.7	\$113.7
Restaurants	\$48.2	\$6.2	\$10.0	\$5.0	\$69.5
Personal Goods	\$27.8	\$4.4	\$7.5	\$3.7	\$43.3
Personal Services	\$13.4	\$2.4	\$3.6	\$2.0	\$21.4
Transportation	\$19.6	\$5.3	\$5.8	\$3.7	\$34.4
Entertainment & Luxury Items	\$23.2	\$3.3	\$4.7	\$2.3	\$33.5
Medical Expenses	\$12.2	\$2.0	\$3.2	\$1.9	\$19.2
Hotels	\$2.8	\$0.5	\$1.0	\$0.5	\$4.7
Recreation	\$10.4	\$1.2	\$1.5	\$1.2	\$14.4
Books	\$55.9	\$9.4	\$11.5	\$5.2	\$82.1
Childcare	\$5.4	\$2.0	\$1.9	\$2.9	\$12.2
<b>Total Student Expenditures</b>	<b>\$646.8</b>	<b>\$100.8</b>	<b>\$144.1</b>	<b>\$68.4</b>	<b>\$960.0</b>
<b>Visitors<sup>b</sup></b>					
Hotels	\$11.4	\$1.5	\$2.0	\$1.1	\$16.0
Recreation	\$10.0	\$1.3	\$1.9	\$1.1	\$14.3
Restaurants	\$10.6	\$1.2	\$2.0	\$1.0	\$14.8
<b>Total Visitor Expenditures</b>	<b>\$31.9</b>	<b>\$4.1</b>	<b>\$5.9</b>	<b>\$3.1</b>	<b>\$45.1</b>

Note: Conferences, events, and athletics not included. FY2020 values grossed up for inflation and enrollment based on 2016 survey by the University of Colorado System. <sup>a</sup>Includes nonresidents and resident students who indicated that they would have left Colorado had they not attended CU (based on survey responses).

<sup>b</sup>Includes only students' visitors.

**Table 6: Visitor Spending and Student Spending (in millions) for students attracted and retained by CU <sup>a</sup>, FY2021**

Spending	CU Boulder	UCCS	CU Denver	CU Anschutz	Total
<b>Students<sup>a</sup></b>					
Housing	\$308.7	\$45.2	\$65.2	\$27.9	\$447.0
Utilities	\$39.5	\$7.4	\$11.1	\$5.5	\$63.6
Groceries	\$77.3	\$9.0	\$16.9	\$10.7	\$113.9
Restaurants	\$48.0	\$5.9	\$10.0	\$5.6	\$69.5
Personal Goods	\$27.6	\$4.3	\$7.4	\$4.0	\$43.4
Personal Services	\$13.4	\$2.3	\$3.6	\$2.2	\$21.4
Transportation	\$19.5	\$5.1	\$5.8	\$4.1	\$34.5
Entertainment & Luxury Items	\$23.1	\$3.2	\$4.7	\$2.5	\$33.5
Medical Expenses	\$12.1	\$1.9	\$3.2	\$2.1	\$19.3
Hotels	\$2.8	\$0.4	\$1.0	\$0.5	\$4.7
Recreation	\$10.4	\$1.2	\$1.5	\$1.3	\$14.4
Books	\$55.6	\$9.1	\$11.5	\$5.7	\$82.0
Childcare	\$5.3	\$1.9	\$1.9	\$3.2	\$12.4
<b>Total Student Expenditures</b>	<b>\$643.3</b>	<b>\$97.0</b>	<b>\$143.9</b>	<b>\$75.4</b>	<b>\$959.5</b>
<b>Visitors<sup>b</sup></b>					
Hotels	\$11.3	\$1.4	\$2.0	\$1.2	\$16.0
Recreation	\$9.9	\$1.3	\$1.9	\$1.2	\$14.3
Restaurants	\$10.6	\$1.2	\$2.0	\$1.1	\$14.8
<b>Total Visitor Expenditures</b>	<b>\$31.8</b>	<b>\$3.9</b>	<b>\$5.9</b>	<b>\$3.5</b>	<b>\$45.0</b>

Note: Conferences, events, and athletics not included. FY2021 values grossed up for inflation and enrollment based on 2016 survey by the University of Colorado System. <sup>a</sup>Includes nonresidents and resident students who indicated that they would have left Colorado had they not attended CU (based on survey responses).

<sup>b</sup>Includes only students' visitors.

<sup>2</sup>Campus visitor spending does not sum to 100% due to rounding.

**EMPLOYMENT**

In FY2020, the University of Colorado was the third-largest employer in the state of Colorado,<sup>3</sup> and is among the largest employers in each county of operations. Differentiating between employee work location and residence is important for assigning employee spending to home MSAs.

Together, the faculty and staff of the University of Colorado form a collaborative community that supports CU’s pillars of excellence and impact—learning and teaching, discovery and innovation, community and culture, and health and wellness. A wide range of employees with a variety of skills is needed to support these pillars, including faculty researchers, scientists, and instructors; administrators; and support staff. Inherent in this range is an array of educational attainment. Most tenured/tenure-track faculty hold a doctorate or other terminal degree.

The University of Colorado employed 27,795 faculty and staff in FY2020 and 15,354 student workers, with salaries and wages of more than \$2.2 billion (excluding benefits). *This is an annual count of individuals (not full-time equivalent jobs).* In FY2021, faculty and staff totaled 27,610 and student employment 13,608, and wages totaled nearly \$2.3 billion. Including student workers,

average earnings were \$51,215 in 2020, and grew to \$64,696 in 2021 as student labor fell more than faculty and staff. Overall, total wages increased 2%, average wages increased 6.8%, faculty and staff employment fell 0.7%, and student employment decreased 11.4%. CU Anschutz and CU Boulder recorded the largest number of employees and the highest total and average wages (excluding student workers). Fringe benefits are an additional cost of labor above the salaries paid.<sup>4</sup> Fringe benefit rates depend on the employee type (e.g., 29% for regular faculty, 37% for staff and research faculty).

**Table 7: Total Employment, FY2020**

Campus	Faculty and Staff	Student Workers	Total Employment
CU Boulder	10,910	9,988	20,898
UCCS	1,951	1,943	3,894
CU Denver	3,466	1,987	5,453
CU Anschutz	10,949	1,420	12,369
System	519	16	535
<b>Total</b>	<b>27,795</b>	<b>15,354</b>	<b>43,149</b>

Source: Based on September 2019 Snapshot. Note: Includes student workers, temporary workers, officer/exempt professional, classified staff, retirees, student other, research faculty, clinical faculty, other faculty, and regular faculty.

**Table 8: Total Employment, FY2021**

Campus	Faculty and Staff	Student Workers	Total Employment
CU Boulder	10,457	8,491	18,948
UCCS	1,896	1,606	3,502
CU Denver	3,748	2,139	5,887
CU Anschutz	11,001	1,352	12,353
System	508	20	528
<b>Total</b>	<b>27,610</b>	<b>13,608</b>	<b>41,218</b>

Source: Based on September 2020 Snapshot. Note: Includes student workers, temporary workers, officer/exempt professional, classified staff, retirees, student other, research faculty, clinical faculty, other faculty, and regular faculty.

<sup>3</sup>Excludes student and temporary workers.

<sup>4</sup>Fringe benefits include dental insurance, disability insurance, FICA contribution, health insurance, life insurance, Medicare, other retirement

plans, PERA, EcoPass, annuitants insurance, unemployment compensation claims, workers’ compensation insurance, and termination annual and sick leave.

**Table 9: Total Regular Faculty and Staff Employment, Fall 2020**

Occupation	Full-Time	Part-Time	Total
<b>Faculty</b>			
Instructional Faculty	6,779	1,999	8,778
Tenured/Tenure Track	4,184	65	4,249
Full Professor	1,281	25	1,306
Associate Professor	1,338	16	1,354
Assistant Professor	1,565	24	1,589
Non-Tenure Track	2,595	1,934	4,529
Instructor/Sr. Instructor	2,365	44	2,409
Other	230	1,890	2,120
<u>Research Faculty</u>	<u>1,881</u>	<u>264</u>	<u>2,145</u>
Total Faculty	8,660	2,263	10,923
<b>Staff</b>			
Officers	136	8	144
<u>Management/Other Professionals/Support Staff</u>	<u>12,368</u>	<u>847</u>	<u>13,215</u>
Total Staff	12,504	855	13,359
<b>Total Faculty and Staff</b>	<b>21,164</b>	<b>3,118</b>	<b>24,282</b>

Note: Excludes temporary workers and student employees.

Source: University of Colorado, Budget and Finance Office, IPEDS Fall 2020 Faculty and Staff Headcount.

## RESIDENT COMMUNITIES

Employees have incredible economic impacts on their local communities. Aside from where they reside—own their home or pay rents—they spend a great deal of their disposable income close to their place of residence. These purchases range from regular spending on fuel and groceries to less frequent spending on clothing, at restaurants, and on vehicles. Their activity supports local business, employment, and wages. It also funds public activities ranging from police and fire protection to schools and infrastructure through the payment of property taxes, sales taxes, income taxes, and fees.

Additionally, employees make important community contributions through volunteerism and charitable giving. They are generally economic and societal stewards who positively impact the communities in which they reside and in which they work. The university's employees are dispersed across the state but concentrated in the metropolitan areas where they work. The CU System provided employee counts by ZIP code in Colorado in order to assign off-site economic benefits to their respective metropolitan areas. The data, which include student employees, show that 64% of CU employees live in the Denver Metro region, 24% reside in the Boulder MSA, and 5% live in the Colorado Springs MSA.<sup>5</sup>

Most University of Colorado employees (excluding students) lived in the same metropolitan area in which they work (81%) in 2020; however, given the proximity and integration of communities and economies within the state, 19% live and work in two different places. Of the Colorado-based employees, most University of Colorado employees (66%) live in the Denver MSA, and 22% live in the Boulder MSA.

Salaries, like employment, were concentrated in the metropolitan areas where the university has a presence. Of the \$2.2 billion in salaries, an estimated \$1.4 billion in salaries were paid to employees living in the Denver MSA, \$500 million to workers residing in the Boulder MSA, and \$117 million to employees in the Colorado Springs MSA.

<sup>5</sup>Some home of record addresses, notably for students, refer to an out-of-state residence.



**Table 10: Residence of Employees (incl. students), FY2020**

Campus	Boulder MSA	Colorado Springs MSA	Denver MSA	All Other	Total
CU Boulder	11,821	279	5,288	3,510	20,898
UCCS	19	3,076	371	428	3,894
CU Denver	321	102	4,581	449	5,453
CU Anschutz	427	227	10,951	764	12,369
System	88	9	385	52	535
<b>Total</b>	<b>12,676</b>	<b>3,692</b>	<b>21,576</b>	<b>5,204</b>	<b>43,149</b>

**Table 11: Residence of Employees (incl. students), FY2021**

Campus	Boulder MSA	Colorado Springs MSA	Denver MSA	All Other	Total
CU Boulder	10,829	216	4,800	3,102	18,948
UCCS	14	2,785	324	379	3,502
CU Denver	349	108	4,859	571	5,887
CU Anschutz	418	251	10,911	773	12,353
System	74	16	373	65	528
<b>Total</b>	<b>11,683</b>	<b>3,376</b>	<b>21,268</b>	<b>4,890</b>	<b>41,218</b>

Notes: Number of employees based on fall snapshot. Some "All Other" home of record addresses, notably for students, refer to an out-of-state residence.

**CONSTRUCTION**

As of June 30, 2020, the University of Colorado continued progress on construction projects valued at \$562 million. More than 28% of this activity was related to CU Boulder and 71% among CU Denver and CU Anschutz campus'. The two largest projects systemwide included the Anschutz

**Table 12: Total Salaries by MSA, FY2020 (In Millions)**

Campus	Boulder MSA	Colorado Springs MSA	Denver MSA	All Other	Total
CU Boulder	\$484.9	\$2.0	\$175.8	\$81.0	\$743.6
UCCS	\$0.2	\$89.4	\$5.4	\$3.7	\$98.6
CU Denver	\$12.8	\$1.7	\$174.9	\$9.1	\$198.6
CU Anschutz	\$36.7	\$26.9	\$1,016.8	\$39.9	\$1,120.4
System	\$8.0	\$0.9	\$35.1	\$4.7	\$48.7
<b>Total</b>	<b>\$542.4</b>	<b>\$120.9</b>	<b>\$1,408.0</b>	<b>\$138.5</b>	<b>\$2,209.9</b>

**Table 13: Total Salaries by MSA, FY2021 (In Millions)**

Campus	Boulder MSA	Colorado Springs MSA	Denver MSA	All Other	Total
CU Boulder	\$478.6	\$1.7	\$178.6	\$86.1	\$745.0
UCCS	\$0.1	\$86.4	\$5.3	\$3.9	\$95.7
CU Denver	\$12.6	\$1.8	\$173.7	\$11.9	\$200.0
CU Anschutz	\$37.4	\$33.6	\$1,051.0	\$41.1	\$1,163.1
System	\$7.5	\$1.7	\$35.6	\$5.8	\$50.6
<b>Total</b>	<b>\$536.2</b>	<b>\$125.3</b>	<b>\$1,444.2</b>	<b>\$148.7</b>	<b>\$2,254.5</b>

Note: Excludes benefits.

Health Sciences Building and the City Heights Residence Hall at CU Denver. Capital outlays (performed by in-state and out-of-state companies) were estimated at \$44.8 million in FY2020 and \$44.7 million in FY2021. Capital spending is nested in the vendor procurement data. More than 90% of capital expenditures were to Colorado companies.

**Table 14: Current Construction Projects as of June 30, 2020 (in Thousands)**

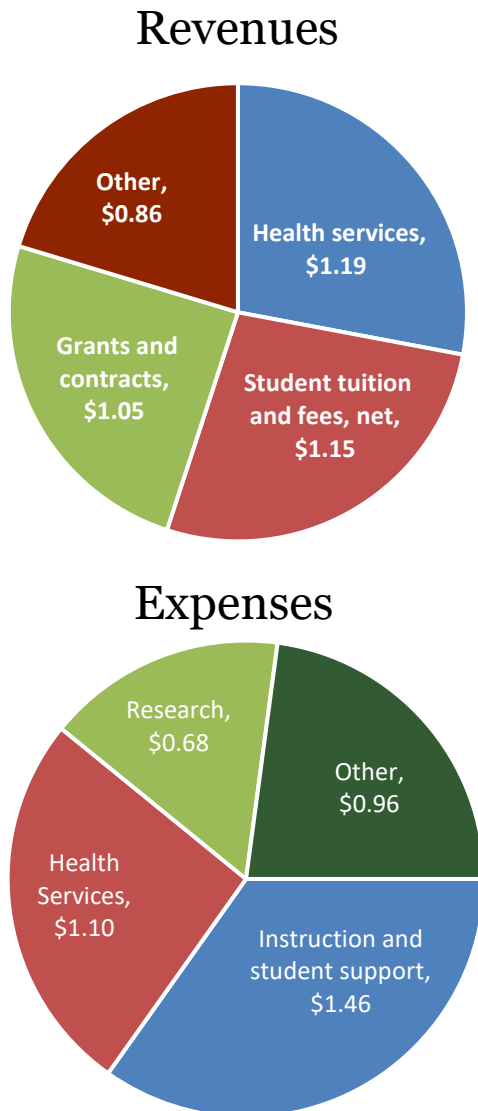
Campus/Project Description	Financing Sources	Value <sup>a</sup>
<b>University of Colorado Boulder</b>		
Aerospace Engineering Sciences Building	Campus cash resources, commercial paper, and bond proceeds	\$6,000
19th Street bridge and trail	Campus cash and Federal Emergency Management Agency (FEMA)	5,998
Koelbel Business and Engineering School expansion	Campus cash resources	45,000
Ramaley Biology Addition	Campus cash resources	21,801
Music-IMIG addition	Campus cash resources and commercial paper	57,000
Fleming Tower renovation and system upgrades	Campus cash resources and commercial paper	13,719
HVAC upgrades and controls, Electrical Engineering Center	State Senate Bill 19-267 COP Funding	6,312
<b>University of Colorado Denver and the Anschutz Medical Campus</b>		
Central Utility Plant boiler and chiller	Debt	34,244
City Heights Residence Hall	Debt	75,243
Lynx Crossing transfer and renovation	Debt	8,627
Anschutz Health Sciences Building	State, campus cash resources, gift, commercial paper, and debt	242,041
Anschutz Health Sciences Building shell space	Campus cash resources and debt	27,906
Research 2 Basement build-out	Campus cash resources and debt	11,115
<b>University of Colorado Colorado Springs</b>		
Hybl Sports Medicine and Performance Center	Bond proceeds	6,802

Sources: University of Colorado 2020 Annual Financial Report (page 23) and the CU System Office of the Vice President for Budget and Finance.  
<sup>a</sup>Value represents budgeted costs for project in thousands.

**OPERATIONS**

The University of Colorado recorded operating and nonoperating revenues of \$4.2 billion in FY2020. More than 79.7% of these noncapital revenues are generated from health services (28%), tuition and fees (27.1%), and grants and contracts (24.7%). State general fund appropriations totaled \$244.9 million in FY2020.<sup>6</sup> The university recorded \$4.8 billion in operating expenditures in FY2020, though some of this included noncash activity (e.g., depreciation) or activities related to health care enterprises, which were not included in the scope of work.

**Figure 6: Operating Revenues and Expenses by Type, FY2020**



**Table 15: Operating and Nonoperating Revenues (Excluding Capital), FY2020 (in Thousands)**

Revenues (in thousands)	FY2020
<b>Operating Revenues</b>	
Student tuition and fees, net	\$1,146,847
Fee-for-service contracts	160,466
Grants and contracts	1,045,269
Sales and services of educational departments	245,067
Auxiliary enterprises, net	276,945
Health services	1,185,649
<u>Other operating</u>	<u>179,380</u>
<b>Total Operating Revenues</b>	<b>4,239,623</b>
<b>Nonoperating Revenues</b>	
Federal Pell Grant	57,627
State appropriations	17,915
State support for PERA pension	8,258
CARES Act funding	29,419
Gifts	211,207
Investment income, net	174,833
<u>Other nonoperating, net</u>	<u>38,024</u>
<b>Total Nonoperating Revenues</b>	<b>537,283</b>
<b>Total Noncapital Revenues</b>	<b>\$4,776,906</b>

Source: University of Colorado Annual Financial Report, June 30, 2020 and 2019 (page 18).

**Table 16: Excerpt from Statements of Revenues, Expenses, and Changes in Net Position, FY2020 (in Thousands)**

	FY2020
<b>Operating Expenses</b>	
Education and general	
Instruction	\$1,106,172
Research	682,789
Public service	138,901
Academic support	202,196
Student services	127,549
Institutional support	249,213
Operation and maintenance of plant	123,986
Student aid	27,812
<b>Total Education and General Expenses</b>	<b>2,670,166</b>
Depreciation	221,096
Auxiliary enterprises	228,565
Health services	1,095,070
<b>Total Operating Expenses</b>	<b>4,203,349</b>

Source: Excerpt from the University of Colorado Annual Financial Report, June 30, 2020 and 2019 (page 29).

<sup>6</sup> Joint Budget Committee. *Appropriations Report, Fiscal Year 2020-21*. [https://leg.colorado.gov/sites/default/files/fy18-19apprept\\_0.pdf](https://leg.colorado.gov/sites/default/files/fy18-19apprept_0.pdf) (page 91), accessed October 1, 2021.

The university’s nonlabor expenditures occur primarily through vendor purchases and through university travel and procurement cards. Combined, nonlabor PSC expenditures totaled \$1.1 billion in FY2020. Nearly 38% of expenditures were in-state purchases in FY2020, and more than a third of purchases were in-state in FY2021. While this leakage includes the purchase of some supplies and equipment out-of-state, it also includes payments to partnering research institutions that contribute unique

capabilities to research projects—collaboration that runs both directions in research. Without these collaborations, many of the grants would otherwise not be awarded to the University of Colorado.<sup>7</sup>

CU Boulder accounted for 45% of nonlabor expenditures in FY2020, totaling \$511.9 million. CU Anschutz vendor spending accounted for 34%, followed by CU Denver, UCCS, and the CU System.

**Table 17: Total PSC Expenditures, FY2020 (In Millions)**

Campus	Boulder MSA	Colorado Springs MSA	Denver MSA	All Other	CO Total	Total
CU Boulder	\$40.7	\$1.0	\$151.9	\$13.4	\$207.0	\$511.9
UCCS	\$0.2	\$12.8	\$8.9	\$0.6	\$22.5	\$81.9
CU Denver	\$2.1	\$0.1	\$72.5	\$2.8	\$77.5	\$121.7
CU Anschutz System	\$1.9	\$1.1	\$88.3	\$13.7	\$105.0	\$379.9
	\$3.2	\$0.2	\$10.3	\$0.3	\$13.9	\$35.9
<b>Total</b>	<b>\$48.0</b>	<b>\$15.2</b>	<b>\$331.9</b>	<b>\$30.8</b>	<b>\$425.9</b>	<b>\$1,131.3</b>

**Table 18: Total PSC Expenditures, FY2021 (In Millions)**

Campus	Boulder MSA	Colorado Springs MSA	Denver MSA	All Other	CO Total	Total
CU Boulder	\$31.2	\$0.6	\$93.9	\$8.9	\$134.5	\$387.0
UCCS	\$0.2	\$8.0	\$7.0	\$1.0	\$16.3	\$39.8
CU Denver	\$1.0	\$0.1	\$82.0	\$0.5	\$83.6	\$123.8
CU Anschutz System	\$2.1	\$0.9	\$79.0	\$12.2	\$94.2	\$442.0
	\$1.6	\$0.2	\$9.6	\$0.2	\$11.5	\$33.8
<b>Total</b>	<b>\$36.2</b>	<b>\$9.7</b>	<b>\$271.5</b>	<b>\$22.9</b>	<b>\$340.2</b>	<b>\$1,026.4</b>

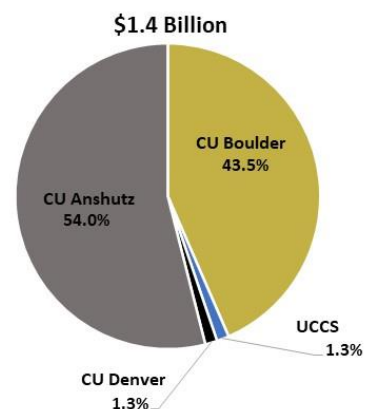
**SPONSORED PROGRAMS**

Each campus has an office that reviews, negotiates, and administers externally funded sponsored research for its respective campus. Responsibilities also include ensuring campus, university, and sponsor policies are being followed; providing award management assistance; preparing subcontracts; and managing government property. These services are provided by the Office of Contracts and Grants for CU Boulder, by the Office of Grants and Contracts for CU Denver and CU Anschutz, and by the Office of Sponsored Programs for UCCS.

In FY2020, of the \$1.4 billion in sponsored research, 97.4% of sponsored research was conducted on two University of Colorado campuses: CU Anschutz and CU Boulder. Excluding the CU Foundation research funding, sponsored research increased 6% across the System in FY2020, after

a 10.1% increase in FY2019, and 40% over the past five years (FY2015-FY2020).

**Figure 7: Sponsored**



Source: University of Colorado, <http://www.cu.edu/sponsored-research>.

**Research, by Campus, FY2020**

<sup>7</sup>Excludes procurement card and travel card purchases. Procurement card purchases are made by university staff, faculty, and students to purchase items up to \$5,000.

**Table 19: University of Colorado Sponsored Research, By Campus, in Millions**

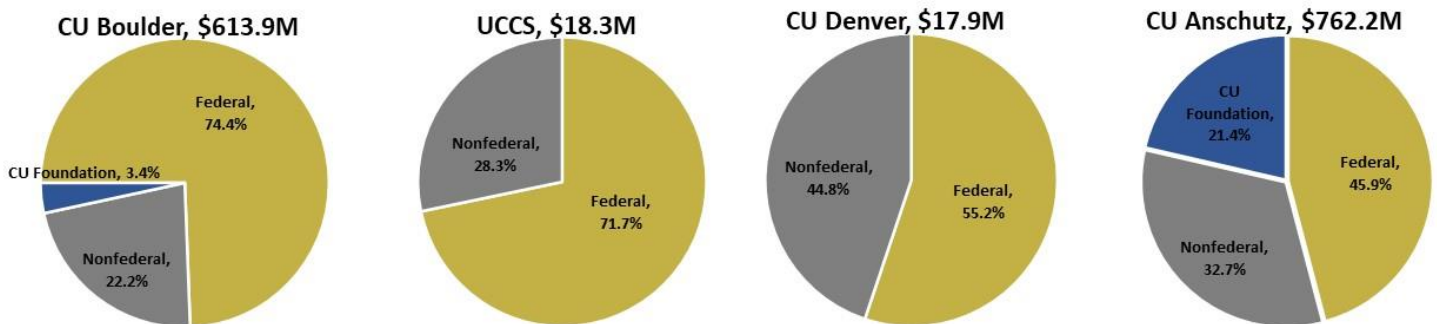
Fiscal Year	CU Boulder	UCCS	CU Denver	CU Anschutz	Total
2000	\$214.2	\$3.0	\$18.7	\$224.0	\$459.9
2001	\$219.0	\$2.8	\$16.7	\$260.1	\$498.6
2002	\$229.0	\$1.9	\$20.3	\$294.6	\$545.9
2003	\$250.4	\$5.2	\$19.1	\$286.1	\$560.9
2004	\$259.7	\$6.3	\$22.9	\$299.8	\$588.7
2005	\$257.6	\$8.7	\$18.6	\$332.2	\$617.0
2006	\$256.5	\$10.3	\$23.5	\$349.8	\$640.0
2007	\$266.1	\$7.9	\$19.8	\$343.6	\$637.4
2008	\$280.0	\$9.2	\$17.9	\$353.6	\$660.7
2009	\$339.7	\$8.7	\$22.8	\$342.4	\$713.5
2010	\$454.4	\$8.3	\$22.2	\$399.2	\$884.1
2011	\$359.1	\$12.4	\$21.8	\$400.1	\$793.5
2012	\$380.7	\$5.0	\$22.4	\$411.7	\$819.8
2013	\$351.9	\$7.8	\$20.1	\$390.8	\$770.5
2014	\$412.1	\$9.4	\$18.5	\$423.3	\$863.3
2015	\$425.6	\$10.3	\$22.2	\$420.3	\$878.3
2016	\$436.8	\$8.0	\$25.0	\$454.1	\$923.9
2017	\$507.9	\$10.2	\$25.9	\$490.3	\$1,034.3
2018	\$511.1	\$6.9	\$18.8	\$516.2	\$1,053.1
2019 <sup>a</sup>	\$630.9	\$8.0	\$23.4	\$805.7	\$1,468.1
2020 <sup>a</sup>	\$613.9	\$18.3	\$18.0	\$762.2	\$1,412.5
2021 <sup>a</sup>	\$634.4	\$15.9	\$24.3	\$770.3	\$1,444.9

Source: University of Colorado, <http://www.cu.edu/sponsored-research> and the Office of the Vice President for Budget and Finance.

Note: Values are in nominal dollars and are not adjusted for inflation.

<sup>a</sup>2019-2021 figures include foundation funding at CU Boulder and CU Anschutz. Anschutz foundation research, while included here, is not included in other published sponsored research totals. Beginning in FY2019, CU Foundation gifts supporting research were added to this summary. Gifts supporting research prior to FY2019 are not included.

**Figure 8: Sponsored Research, By Source and Campus, FY2020**



Source: University of Colorado, <http://www.cu.edu/sponsored-research> and the Office of the Vice President for Budget and Finance.

## TECHNOLOGY TRANSFER

Technology transfer works to assist with the commercialization of university technology. University of Colorado commercialization activity is decentralized between Venture Partners, the commercialization arm of CU Boulder and UCCS, and CU Innovations, an intellectual property management service at the Anschutz Medical Campus.<sup>8</sup>

The services provided on campus from Venture Partners and CU Innovations include:

- Advises faculty on intellectual property issues
- Supports intellectual property management and commercialization planning for major federal grant proposals
- Advises campus researchers about the technology transfer process through a variety of means including seminars, newsletters, and special events
- Solicits and analyzes invention disclosures from faculty, students, and staff
- Engages students and commercialization partners in market assessment
- Prepares and manages the transfer of “tangible research property” such as biological materials
- Licenses patents and copyrights for commercial use and manages those licenses

### *Venture Partners*

To illustrate impact, according to Venture Partners at CU Boulder, in FY2020, Venture Partners’ startup portfolio disclosed 175 inventions, recorded 59 license and option agreements, and had 12 startups spun out of university technology.<sup>9</sup> Additionally, the University of Colorado was ranked #20 in a 2020 global ranking of the top 100 universities granted U.S. utility patents. From 2014 to 2018, CU Boulder’s innovative technologies and startups had a \$1.9 billion impact on the national economy and a \$1.2 billion impact on Colorado’s economy.<sup>10</sup>

### *CU Innovations*

In FY2020, CU Innovations’ startup portfolio raised \$170 million in funding, raised \$50 million for a venture fund, completed over 50 industry deals, and engaged in outreach and education with over 1,700 individuals.<sup>11</sup>

## CU FOUNDATION

Created in 1967 by volunteers and community leaders, the University of Colorado Foundation raises, manages, and invests private support for the benefit of the university. Fundraising efforts supplement state funding, tuition, and other revenue sources by funding student scholarships, faculty support, academic programs, and building improvements. In 2020, the University of Colorado Foundation recorded \$459.9 million in gifts from 32,008 donors: \$65 million for scholarships; \$126 million for research; \$25 million for faculty; and \$263 million for health care.<sup>12</sup> The impact of these gifts touches all four campuses in the areas of learning and teaching, discovery and innovation, community and culture, and health and wellness. As of June 30, 2021, the Foundation managed more than \$3 billion in assets with endowments valued at \$2.1 billion. In 2020, 140 new endowments were created, \$75 million was given in new endowment support, and 3,029 total endowments have an enduring impact. The CU Foundation transferred \$209 million in FY2020 to support people, places, and programs on CU campuses.

<sup>8</sup> Venture Partners at CU Boulder includes all CU Boulder innovations, all CU Colorado Springs innovations non-medical CU Denver innovations; CU innovations includes Anschutz Medical Campus innovations and Medical CU Denver innovations.

<sup>9</sup> <https://www.colorado.edu/venturepartners/about-us>, retrieved September 30, 2021

<sup>10</sup> [https://www.colorado.edu/venturepartners/sites/default/files/attached-files/cu\\_boulder\\_tto\\_economic\\_impact\\_report\\_010819.pdf](https://www.colorado.edu/venturepartners/sites/default/files/attached-files/cu_boulder_tto_economic_impact_report_010819.pdf), retrieved September 30, 2021.

<sup>11</sup> <https://www.cuanschutz.edu/cu-innovations/cu-innovations/annual-report/2020-annual-report>, retrieved September 30, 2021.

<sup>12</sup> <https://essential.cu.edu/impact-reports/onward/financials>, retrieved September 30, 2021.

## ECONOMIC CONTRIBUTION

The University of Colorado’s direct expenditures led to \$7.7 billion in economic activity in the state of Colorado in FY2021, resulting from the work of 27,600 regular faculty and staff. These faculty and staff participate in activities ranging from teaching and research to administrative and support, operating one of the largest institutions in the state of Colorado. The majority of economic activity is, in fact, driven off employee compensation (salaries and benefits).

Sliced by function, sponsored programs expenditures (i.e., research) accounted for more than \$3.1 billion in total economic activity (\$1.9 billion in direct activity) in Colorado, excluding the long-term benefits of scientific discoveries and technology commercialization via licenses, patents, and spinoff companies.

**Table 20: University of Colorado Economic Contribution, FY2020**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	27,795	\$2.9	\$3.6	\$4.1
Indirect Effect	14,446	\$0.6	\$1.0	\$1.7
Induced Effect	12,770	\$0.6	\$1.2	\$2.0
<b>Total Effect</b>	<b>55,011</b>	<b>\$4.1</b>	<b>\$5.8</b>	<b>\$7.7</b>

**Table 21: University of Colorado Economic Contribution, FY2021**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	27,610	\$2.9	\$3.7	\$4.0
Indirect Effect	13,905	\$0.6	\$1.0	\$1.7
Induced Effect	12,831	\$0.6	\$1.2	\$2.0
<b>Total Effect</b>	<b>54,345</b>	<b>\$4.2</b>	<b>\$5.9</b>	<b>\$7.7</b>

## CONCLUSION

The University of Colorado remains an economic engine in the state of Colorado through educational, research, operational, and ancillary activities. Students enroll at the university to earn an education, many of whom will enter the Colorado workforce. This labor force not only fills local employment and entrepreneurial needs, but also becomes a draw for businesses looking to locate in Colorado. Likewise, while research is driven off the interests and expertise of faculty, it also provides competitive economic attributes that differentiate Colorado from other states—as seen in such industry concentrations as the Professional, Scientific, and Technical Services Sector; the Information Sector; and in aerospace, cleantech, and biotechnology clusters. This research activity exists in a collaborative triangle of universities, businesses, and federal research facilities in the state, occasionally resulting in the creation of companies and the licensing of technologies from the university.

The economic impacts of the university are ultimately driven by the education and research missions of the

**Table 22: Summary of Research Expenditure Contributions, FY2020**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	7,981	\$0.9	\$1.3	\$1.6
Indirect Effect	4,109	\$0.3	\$0.2	\$0.4
Induced Effect	4,516	\$0.2	\$0.4	\$0.7
<b>Total Effect</b>	<b>16,607</b>	<b>\$1.4</b>	<b>\$1.9</b>	<b>\$2.6</b>

**Table 23: Summary of Research Expenditure Contributions, FY2021**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	8,141	\$1.3	\$1.6	\$1.9
Indirect Effect	3,992	\$0.3	\$0.2	\$0.4
Induced Effect	5,591	\$0.3	\$0.5	\$0.9
<b>Total Effect</b>	<b>17,723</b>	<b>\$1.8</b>	<b>\$2.4</b>	<b>\$3.1</b>

university, which result in both operating and capital expenditures in the state of Colorado. The \$4 billion in direct spending related to the university operations and capital projects, in addition to student spending, resulted in economic activity of \$7.7 billion. Comparatively, state funding for the university topped \$244.9 million in FY2020, lending to the substantial economic activity generated by the university. This is not to say that additional dollars invested by the state will result in similar returns on investment. While state funding is often times a match for federal dollars, the amount of additional federal funding is limited, and may even decline in coming years.

This operating and capital spending occurs primarily with private companies in the state, ranging from utilities to food suppliers. The 27,000 faculty and staff and the 14,000 student workers accounted for more than 55,000 jobs in the state related to the supplier companies and household spending of employees.

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## APPENDIX 1: LITERATURE REVIEW OF UNIVERSITY ECONOMIC IMPACT STUDIES

### **Arizona State University** (*Center for Competitiveness and Prosperity Research 2020*)

Arizona State University (ASU) directly employed 19,289 faculty, students, and staff in FY2020 and accounted for a total of 53,615 Arizona jobs. The university also generated \$3 billion in labor income. ASU accounted for \$4.6 billion in state GDP, with \$1.7 billion attributed to university payroll and employment and \$1.4 billion attributed to student spending.

### **Oregon State University** (*Oregon State Leadership 2018*)

Oregon State University (OSU) economic impact in the state of Oregon in 2017 was over \$2.3 billion and 30,452 jobs. OSU directly accounted for \$989 million to the Oregon economy as well as \$155 million in indirect and \$1.2 billion in induced impacts. The economic impact for Benton and Linn counties was \$1.6 billion and 20,691 jobs. The university accounted for \$281.8 million and 3,884 jobs in Portland alone.

### **Stanford** (*The Pacific Partners Consulting Group, Inc. 2008*)

Stanford University, which consists of seven schools, employed 1,807 faculty and over 20,000 total employees in 2006, making it the largest employer in the region. The university also brought in revenue of \$4.5 billion and spent more than \$1.6 billion the local area in 2006 according to the economic impact study conducted in 2008. The study estimated that Stanford employees spent \$1.2 billion in the surrounding communities. Stanford University contributed \$2.1 billion in direct expenditures to Santa Clara and San Mateo counties, \$609 million of which was from Stanford hospitals. Students and visitors spent a combined \$348 million in the surrounding communities as well.

### **University of Arizona** (*Elliot D. Pollack & Company and The Maguire Company 2019*)

The University of Arizona (UA) accounted for a total economic output of \$11.1 billion through its employees, students, and visitors according to a study based on FY2017. The university employed 36,725 people, and it is estimated that the university created an additional 47,630 jobs in the Arizona economy. A total of \$4.6 billion in labor income and \$6.0 billion in value added was generated by the university. It is also estimated that the Arizona Public University Enterprise provides \$180.8 million in primary fiscal impacts and \$270.8 million in secondary fiscal impacts. This amounts to a total of \$451.7 million in state,

county, city, and other local taxes from these primary and secondary sources.

### **University of California System** (*Beacon Economics 2021*)

The University of California System had a total impact of \$82 billion on the California economy during the 2018-2019 fiscal year according to a study conducted in 2021 by Beacon Economics. UC's output is composed of \$41.7 billion in direct effects and \$40.3 billion in indirect and induced effects. 529,000 full-time jobs are supported throughout California as a result of UC spending, and over 310,000 people are employed directly by the university system. UC was the third largest employer in Los Angeles County in 2020.

### **University of Massachusetts** (*UMass Donahue Institute Economic and Public Policy Research 2020*)

The University of Massachusetts System generated \$7.5 billion in economic activity and supported 49,315 jobs (17,622 direct) in the state in FY2018. UMass-Boston, a selected peer of CU Denver and UCCS, calculated its impact at \$1.2 billion, and UMass-Lowell, a CU Denver peer, calculated its impact at \$1.2 billion. The UMass system consists of UMass Amherst, UMass Boston, UMass Dartmouth, UMass Lowell, and UMass Medical School. UMass System revenues are 72% operating revenues and 28% state revenues.

### **University of Oregon** (*Duy 2019*)

The University of Oregon (UO) contributed \$2.3 billion to Oregon's economy in 2017–18 according to a study conducted by UO economics professor, Tim Duy. A total of \$1.3 billion of this amount was new economic activity that would not have happened without the university. In 2013, UO directly employed approximately 10,300 employees, and the university's direct and indirect spending supported more than 24,500 jobs in Oregon. The total amount of spending associated with the university grew by 16.5% year-over-year. The household earnings generated from the UO's payroll and spending generated \$42.7 million in tax revenue.

### **University of Southern California** (*Beacon Economics 2016*)

The University of Southern California (USC) was responsible for about \$8.1 billion in total output in California in the 2015-2016 fiscal year. Direct effects amounted to \$4.2 billion, \$1.9 billion were indirect effects, and \$2.0 billion were induced effects. USC also generated

\$455 million in tax revenues for local and state governments according to the economic impact study conducted in 2016 by Beacon Economics. The university employed 30,907 people directly, equating to \$2.9 billion in payroll. A total of 53,425 jobs are supported through USC. Direct spending in the state of California provided by USC totaled over \$3.7 billion in the 2015-2016 fiscal year.

**University of Texas** (*Institute for Economic Development 2005*)

The University of Texas System (UTS) comprises nine academic and six health-related institutions within the state of Texas. In the 2004 fiscal year, UTS had a total economic impact of \$12.8 billion, consisting of \$8.7 billion in direct spending and \$4.1 billion in indirect spending. UTS accounts for total student enrollment of 177,676, and 88,035 faculty and staff. Through its total economic activity, UTS supports 215,715 total jobs, and for every on-campus job, and additional 1.5 jobs are added.

**University of Utah** (*Kem C. Gardner Policy Institute 2020*)

The University of Utah directly and indirectly supported \$6.3 billion in state GDP, supported 83,100 jobs, and generated \$4.6 billion in earnings in 2019. The University is the state's largest employer, with 39,300 employees and accounting for 0.9% of state employment – the most among public PAC-12 Universities. In terms of total economic impact, Operations accounted for \$10.3 billion in output, 79,000 jobs, and \$4.4 billion in earnings; construction accounted for \$607 million in output, 3,500 jobs, and \$189 million in earnings; and nonresident student spending accounted for \$79 million in output, 600 jobs, and \$22 million in earnings.

**University of Washington** (*Parker Philips and University of Washington 2019*)

The University of Washington (UW) generated \$15.7 billion in FY2018 according to an economic impact study conducted by Parker Philips. The direct impact of UW in

the state of Washington was \$7.8 billion while the indirect/induced impact was \$7.9 billion. The university directly employed 43,536 people, making UW the fifth-largest employer in the state. Overall, UW was responsible for supporting 100,520 jobs across the state, or roughly 2.7% of total jobs in Washington, which equates to 1 of every 37 jobs in the state. UW accounted for \$249.4 million in direct tax revenue and \$503.3 million in indirect/induced tax revenue to state and local governments.

**Washington State University** (*CAI Community Attributes 2015*)

In FY2014, Washington State University (WSU) employed 17,970 workers, with an average annual employment of 11,900 direct jobs. There are economic impacts through all major sectors of Washington's economy. Producer and transport services received the largest labor income impact, and consumer services was impacted mainly through employment. In FY2014, WSU employee compensation totaled \$598 million, including both wage and salary, and employer contributions to benefits. Through indirect impacts, the university supported an additional 8,700 jobs and \$101 million in labor income. Another \$311 million was generated in induced effects. WSU generated almost \$19 for every \$1 the state invested in the university. WSU generated a total economic impact of \$3.4 billion within the state of Washington in FY2014.

**Colorado State University** (*Economic and Fiscal Impact Study: Colorado State University System 2021*)

The Colorado State University System supported nearly 23,000 jobs and more than \$237.74 million in state income and sales tax revenue in FY2019-20. The Fort Collins area receives more than \$36 million in local sales and use tax revenues from CSU related operations, and more than 17,300 jobs are supported in the city a year.

## APPENDIX 2: UNIVERSITY OF COLORADO BOULDER IMPACT

The Boulder Metropolitan Statistical Area (MSA) recorded 187,200 employees in 2020 and \$30.2 billion in total output in 2019 (most current data). Funding for university operations and capital spending is by and large nonlocal, resulting in an infusion of investment into the local economy.

### Enrollment

In Fall 2021, CU Boulder enrolled 36,289 students (headcount), 57.1% of whom were Colorado residents and 82.2% of whom were undergraduate students. On a full-time equivalent (FTE) basis, CU Boulder enrolled 31,820 students in FY2021.

### Alumni

CU Boulder accounts for nearly 149,500 alumni living in the state of Colorado, including business leaders, policymakers, educators, health care workers, engineers, and others. Nearly 49,000 alumni from University of Colorado campuses live in the Boulder MSA.

### Employment and Wages

CU Boulder employed 18,948 faculty, staff, and students in FY2021. Based on employment records, over 90% of these employees live in Colorado, with some of the nonresident employment attributable to student workers citing their parents' out-of-state home address. CU Boulder employees living and working in the Boulder MSA totaled 10,879 in FY2021, with an additional 854 individuals living in the Boulder MSA but working on other campuses. Excluding the number of student workers (e.g., work-study recipients), CU Boulder was estimated to employ 10,457 individuals in FY2021.

### Total Operating and Capital Spending

Direct spending by the University of Colorado Boulder totaled an estimated \$1.5 billion in FY2021. Budgeted costs for construction projects as of the end of FY2020 for CU Boulder were estimated at \$155.8 million—these

projects may span several years. Campus construction expenditures in FY2021 totaled \$103 million.

### Student Spending and Visitors

Based on a biannual survey of students, CU Boulder recorded \$646.8 million in 2020 and \$643.3 million in 2021 in nonlocal student and visitor spending in Colorado. This includes nonresident and resident students who indicated that they would have left Colorado had they not attended CU, as well as students' visitors. Spending included rents, groceries, transportation, childcare, recreation, health care, and other.

### Research

Research draws federal, state, and private funding. University research leads to immeasurable scientific discoveries and societal benefits that range from medicine and energy to space and weather. To understand just a slice of the benefits, one could look to licensed technologies in the Venture Partners portfolio, or to the spinoff companies that dot the Colorado landscape. However, by the nature of the work, research begets research, and is thus a perpetual building block of knowledge that propels the next scientific discovery. CU Boulder research expenditures (including equipment, construction, operations, and labor) were estimated at \$617 million in FY2021. The economic contribution of these research activities totaled \$1 billion on the Colorado economy in 2021.

### Economic Contribution

CU Boulder had the largest economic contribution on the Boulder MSA, but businesses in the metropolitan area also supply goods and services to the other University of Colorado campuses. Additionally, some employees live in the Boulder MSA but work on another campus, which creates an economic boost from their household spending. The economic contribution of CU Boulder on the state of Colorado totaled \$3 billion in FY2021.

**Table 24: CU Boulder, Impact on Colorado, FY2020**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	10,910	\$1.0	\$1.3	\$1.5
Indirect Effect	8,324	\$0.3	\$0.6	\$1.0
Induced Effect	4,757	\$0.2	\$0.4	\$0.7
<b>Total Effect</b>	<b>23,991</b>	<b>\$1.5</b>	<b>\$2.3</b>	<b>\$3.3</b>

**Table 25: CU Boulder, Impact on Colorado, FY2021**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	10,457	\$1.0	\$1.2	\$1.4
Indirect Effect	7,378	\$0.3	\$0.6	\$0.9
Induced Effect	4,546	\$0.2	\$0.4	\$0.7
<b>Total Effect</b>	<b>22,381</b>	<b>\$1.5</b>	<b>\$2.2</b>	<b>\$3.0</b>

**Table 26: CU Boulder Research, Impact on Colorado, FY2020**

Impact	Employment	Labor Income (In Millions)	Value Added (In Millions)	Output (In Millions)
Direct Effect	3,179	\$312.3	\$450.6	\$576.5
Indirect Effect	1,979	\$131.7	\$103.3	\$197.6
Induced Effect	1,637	\$79.1	\$148.4	\$251.6
<b>Total Effect</b>	<b>6,795</b>	<b>\$523.1</b>	<b>\$702.3</b>	<b>\$1,025.7</b>

**Table 27: CU Boulder Research, Impact on Colorado, FY2021**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Millions)
Direct Effect	3,245	\$410.1	\$524.6	\$616.5
Indirect Effect	1,298	\$88.2	\$76.0	\$145.1
Induced Effect	1,792	\$87.7	\$164.6	\$279.1
<b>Total Effect</b>	<b>6,335</b>	<b>\$586.0</b>	<b>\$765.2</b>	<b>\$1,040.7</b>

## APPENDIX 3: UNIVERSITY OF COLORADO IMPACT ON THE COLORADO SPRINGS MSA

The Colorado Springs Metropolitan Statistical Area (MSA) recorded 289,500 employees in 2020 and \$39 billion in total output in 2019 (most current data). Funding for university operations and capital spending is by and large nonlocal, resulting in an infusion of investment into the local economy.

### Enrollment

In Fall 2021, UCCS enrolled 11,385 students (headcount), 85.2% of whom were Colorado residents and 83.2% of whom were undergraduate students. On a full-time equivalent (FTE) basis, UCCS enrolled 9,586 students in FY2021.

### Alumni

UCCS accounts for over 37,200 alumni living in the state of Colorado, including business leaders, policymakers, educators, health care workers, engineers, and others. Approximately 34,840 alumni from University of Colorado campuses live in the Colorado Springs MSA.

### Employment and Wages

UCCS employed 3,502 faculty, staff, and students in FY2021. Based on employment records, 3,298 (94%) of these employees live in Colorado, with some of the nonresident employment attributable to student workers citing their parents' out-of-state home address. UCCS employees living and working in the Colorado Springs MSA totaled 2,785 in FY2021; an additional 591 individuals lived in the Colorado Springs MSA, but worked on other campuses. Excluding the number of student workers (e.g., work-study recipients), UCCS was estimated to employ 1,894 individuals in FY2021.

### Nonlabor Operating and Capital Spending

Direct spending by the University of Colorado Colorado Springs totaled an estimated \$187.2 million in FY2021. Budgeted costs for construction projects as of the end of FY2020 for UCCS were estimated at \$6.8 million—these

projects may span several years. Campus construction expenditures in FY2021 totaled \$12.7 million.

### Student Spending and Visitors

Based on a biannual survey of students, UCCS recorded \$100.8 million in 2020 and \$97 million in 2021 in nonlocal student and visitor spending in Colorado. This includes nonresident and resident students who indicated that they would have left Colorado had they not attended CU, as well as students' visitors. Spending included rents, groceries, transportation, childcare, recreation, health care, and other.

### Research

Research draws federal, state, and private funding. University research leads to immeasurable scientific discoveries and societal benefits that range from medicine and energy to space and weather. To understand just a slice of the benefits, one could look to licensed technologies in the Venture Partners portfolio, or to the spinoff companies that dot the Colorado landscape. However, by the nature of the work, research begets research, and is thus a perpetual building block of knowledge that propels the next scientific discovery. Research expenditures (including equipment, construction, operations, and labor) at UCCS were estimated at \$45 million in FY2021. The economic contribution of these research activities totaled \$75 million on the Colorado economy in 2021.

### Economic Contribution

UCCS had the largest economic contribution on the Colorado Springs MSA, but businesses in the metropolitan area also supply goods and services to the other University of Colorado campuses. Additionally, some employees live in the Colorado Springs MSA but work on another campus, which creates an economic boost from their household spending. The economic contribution of UCCS on the state of Colorado totaled \$399 million in FY2021.

**Table 28: UCCS, Impact on Colorado, FY2020**

Impact	Employment	Labor Income (In Millions)	Value Added (In Millions)	Output (In Millions)
Direct Effect	1,951	\$128.2	\$186.3	\$214.4
Indirect Effect	1,527	\$61.6	\$91.0	\$147.8
Induced Effect	707	\$34.2	\$64.1	\$108.7
<b>Total Effect</b>	<b>4,185</b>	<b>\$223.9</b>	<b>\$341.4</b>	<b>\$470.9</b>

**Table 29: UCCS, Impact on Colorado, FY2021**

<b>Impact</b>	<b>Employment</b>	<b>Labor Income (In Millions)</b>	<b>Value Added (In Millions)</b>	<b>Output (In Millions)</b>
Direct Effect	1,896	\$124.5	\$156.8	\$168.5
Indirect Effect	1,161	\$40.0	\$84.7	\$136.8
Induced Effect	598	\$29.3	\$54.9	\$93.2
<b>Total Effect</b>	<b>3,655</b>	<b>\$193.8</b>	<b>\$296.4</b>	<b>\$398.5</b>

**Table 30: UCCS Research, Impact on Colorado, FY2020**

<b>Impact</b>	<b>Employment</b>	<b>Labor Income (In Millions)</b>	<b>Value Added (In Millions)</b>	<b>Output (In Millions)</b>
Direct Effect	245	\$25.5	\$60.3	\$79.6
Indirect Effect	431	\$28.4	\$7.5	\$14.3
Induced Effect	209	\$10.1	\$18.9	\$32.0
<b>Total Effect</b>	<b>885</b>	<b>\$63.9</b>	<b>\$86.6</b>	<b>\$125.9</b>

**Table 31: UCCS Research, Impact on Colorado, FY2021**

<b>Impact</b>	<b>Employment</b>	<b>Labor Income (In Millions)</b>	<b>Value Added (In Millions)</b>	<b>Output (In Millions)</b>
Direct Effect	239	\$30.3	\$41.1	\$45.2
Indirect Effect	115	\$7.8	\$4.1	\$7.8
Induced Effect	140	\$6.8	\$12.8	\$21.8
<b>Total Effect</b>	<b>494</b>	<b>\$44.9</b>	<b>\$58.0</b>	<b>\$74.7</b>

## APPENDIX 4: UNIVERSITY OF COLORADO IMPACT ON THE DENVER MSA

The Denver Metropolitan Statistical Area (MSA) recorded 1.5 million employees in 2020 and \$227.4 billion in total output in 2019 (most current data). Funding for university operations and capital spending is by and large nonlocal, resulting in an infusion of investment into the local economy.

### **Enrollment**

In Fall 2021, CU Denver enrolled 14,884 students (headcount), 84.3% of whom were Colorado residents and 68.3% of whom were undergraduate students. On a full-time equivalent (FTE) basis, CU Denver enrolled 11,889 students. CU Anschutz enrolled 4,511 students (headcount), 77.1% of whom were Colorado residents and 9.8% of whom were undergraduate students. On an FTE basis, CU Anschutz enrolled 6,538 students.

### **Alumni**

CU Denver (77,870) and CU Anschutz (30,541) accounted for more than 108,000 alumni living in the state of Colorado, including business leaders, policymakers, educators, health care workers, engineers, and others. More than 177,000 alumni from University of Colorado campuses live in the Denver MSA.

### **Employment and Wages**

CU Denver, CU Anschutz, and the system administration employed nearly 18,768 faculty, staff, and students in FY2021. Based on employment records, 96% of these employees live in Colorado, with some of the nonresident employment attributable to student workers citing their parents' out-of-state home address. CU Denver, CU Anschutz, and System employees living and working in the Denver MSA totaled 16,144 in FY2021, with an additional 5,124 individuals living in the Denver MSA, but working on other campuses. Excluding the number of student workers (e.g., work-study recipients), CU Denver, CU Anschutz, and system administration were estimated to employ 15,257 individuals in FY2021. CU Denver had 3,748 employees, CU Anschutz had 11,001 employees, and the system offices accounted for 508 workers.

### **Nonlabor Operating and Capital Spending**

Direct spending (including construction) by CU Anschutz, CU Denver, and the System office totaled \$2.6 billion in FY2021. Budgeted costs for construction projects as of the end of FY2020 for the Denver campuses were estimated at

\$399.2 million—these projects may span several years. The Denver MSA benefits from regional construction spending by the other campuses. Campus construction expenditures in FY2021 totaled \$196 million.

### **Student Spending and Visitors**

Based on a biannual survey of students, CU Denver and CU Anschutz recorded \$144.1 million and \$68.4 million, respectively, in nonlocal student and visitor spending in Colorado in 2020, and \$143.9 million and \$75.4 million in 2021 at CU Denver and CU Anschutz, respectively. This includes nonresident and resident students who indicated that they would have left Colorado had they not attended CU, as well as students' visitors. Spending included rents, groceries, transportation, childcare, recreation, health care, and other.

### **Research**

Research draws federal, state, and private funding. University research leads to immeasurable scientific discoveries and societal benefits that range from medicine and energy to space and weather. To understand just a slice of the benefits, one could look to licensed technologies in the CU Innovations and Venture Partners portfolios, or to the spinoff companies that dot the Colorado landscape. Research expenditures for CU Anschutz and CU Denver in FY2021 totaled \$1.1 billion and \$106 million, respectively. The economic contribution of these activities on the Colorado economy totaled \$1.8 billion and \$232 million, respectively, from CU Anschutz and CU Denver.

### **Economic Contribution**

CU Denver and the Anschutz Medical Campus had the largest economic contribution on the Denver MSA, but businesses in the metropolitan area also supply goods and services to the other University of Colorado campuses. Additionally, some employees live in the Denver MSA but work on another campus, which creates an economic boost from their household spending. Through research, teaching, operations, construction, student spending, and visitation, the economic contribution of CU Denver on the state of Colorado totaled \$0.9 billion in FY2021, and CU Anschutz's calculated impact was \$3.2 billion. The University System offices contributed an additional 158 million to the state economy.

**Table 32: CU Denver, Impact on Colorado, FY2020**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	3,466	\$0.3	\$0.3	\$0.4
Indirect Effect	2,195	\$0.1	\$0.2	\$0.3
Induced Effect	1,272	\$0.1	\$0.1	\$0.2
<b>Total Effect</b>	<b>6,932</b>	<b>\$0.4</b>	<b>\$0.6</b>	<b>\$0.9</b>

**Table 33: CU Denver, Impact on Colorado, FY2021**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	3,748	\$0.3	\$0.3	\$0.4
Indirect Effect	2,313	\$0.1	\$0.2	\$0.3
Induced Effect	1,317	\$0.1	\$0.1	\$0.2
<b>Total Effect</b>	<b>7,378</b>	<b>\$0.4</b>	<b>\$0.6</b>	<b>\$0.9</b>

**Table 34: CU Denver Research, Impact on Colorado, FY2020**

Impact	Employment	Labor Income (In Millions)	Value Added (In Millions)	Output (In Millions)
Direct Effect	433	\$44.1	\$68.7	\$80.6
Indirect Effect	439	\$29.2	\$23.6	\$45.1
Induced Effect	274	\$13.2	\$24.8	\$42.0
<b>Total Effect</b>	<b>1,146</b>	<b>\$86.5</b>	<b>\$117.1</b>	<b>\$167.7</b>

**Table 35: CU Denver Research, Impact on Colorado, FY2021**

Impact	Employment	Labor Income (In Millions)	Value Added (In Millions)	Output (In Millions)
Direct Effect	446	\$55.4	\$91.4	\$106.1
Indirect Effect	664	\$44.6	\$35.4	\$67.9
Induced Effect	370	\$18.1	\$34.0	\$57.6
<b>Total Effect</b>	<b>1,480</b>	<b>\$118.0</b>	<b>\$160.8</b>	<b>\$231.6</b>

**Table 36: CU Anschutz, Impact on Colorado, FY2020**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	10,949	\$1.5	\$1.8	\$1.9
Indirect Effect	2,279	\$0.1	\$0.1	\$0.2
Induced Effect	5,792	\$0.3	\$0.5	\$0.9
<b>Total Effect</b>	<b>19,019</b>	<b>\$1.9</b>	<b>\$2.4</b>	<b>\$3.0</b>

**Table 37: CU Anschutz, Impact on Colorado, FY2021**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	11,001	\$1.5	\$1.9	\$2.0
Indirect Effect	2,946	\$0.2	\$0.2	\$0.3
Induced Effect	6,115	\$0.3	\$0.6	\$1.0
<b>Total Effect</b>	<b>20,062</b>	<b>\$2.0</b>	<b>\$2.6</b>	<b>\$3.2</b>



**Table 38: CU Anschutz Research, Impact on Colorado, FY2020**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	4,123	\$0.6	\$0.7	\$0.8
Indirect Effect	1,249	\$0.1	\$0.1	\$0.1
Induced Effect	2,394	\$0.1	\$0.2	\$0.4
<b>Total Effect</b>	<b>7,766</b>	<b>\$0.8</b>	<b>\$1.0</b>	<b>\$1.3</b>

**Table 39: CU Anschutz Research, Impact on Colorado, FY2021**

Impact	Employment	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
Direct Effect	4,209	\$0.8	\$1.0	\$1.1
Indirect Effect	1,893	\$0.1	\$0.1	\$0.2
Induced Effect	3,281	\$0.2	\$0.3	\$0.5
<b>Total Effect</b>	<b>9,384</b>	<b>\$1.1</b>	<b>\$1.4</b>	<b>\$1.8</b>

***Additional Economic Impacts from the Anschutz Medical Campus***

University of Colorado Medicine (CU Medicine) provides administrative and business operations support for clinical healthcare provides at the University of Colorado School of Medicine. CU Medicine reported \$79 million in operating expenditures, including \$38 million on salaries paid to the 550 employees in FY2021.

The Anschutz Medical Campus is also the location of University of Colorado Hospital (UCH) and Children’s Hospital Colorado (CHCO) with CU Anschutz faculty

providing patient care at these facilities. While operations are concentrated on the Anschutz Medical Campus, the economic contribution extends well beyond the Denver MSA and across Colorado. These hospitals on the CU Anschutz Campus collectively reported \$1.6 billion in direct spending in the state, nearly 18,900 employees, and \$1.1 billion in salaries.

The economic contribution of these entities is estimated to be \$4.2 billion to the Colorado economy in FY2021.

**Table 40: UCH AND CHCO Impact on Colorado (Direct, Indirect, and Induced), FY2021**

Impact	Employment (Direct and Supported)	Labor Income (In Billions)	Value Added (In Billions)	Output (In Billions)
<b>Anschutz Campus Hospitals Impact</b>	<b>30,601</b>	<b>\$1.8</b>	<b>\$2.3</b>	<b>\$4.2</b>