

January 30, 2024

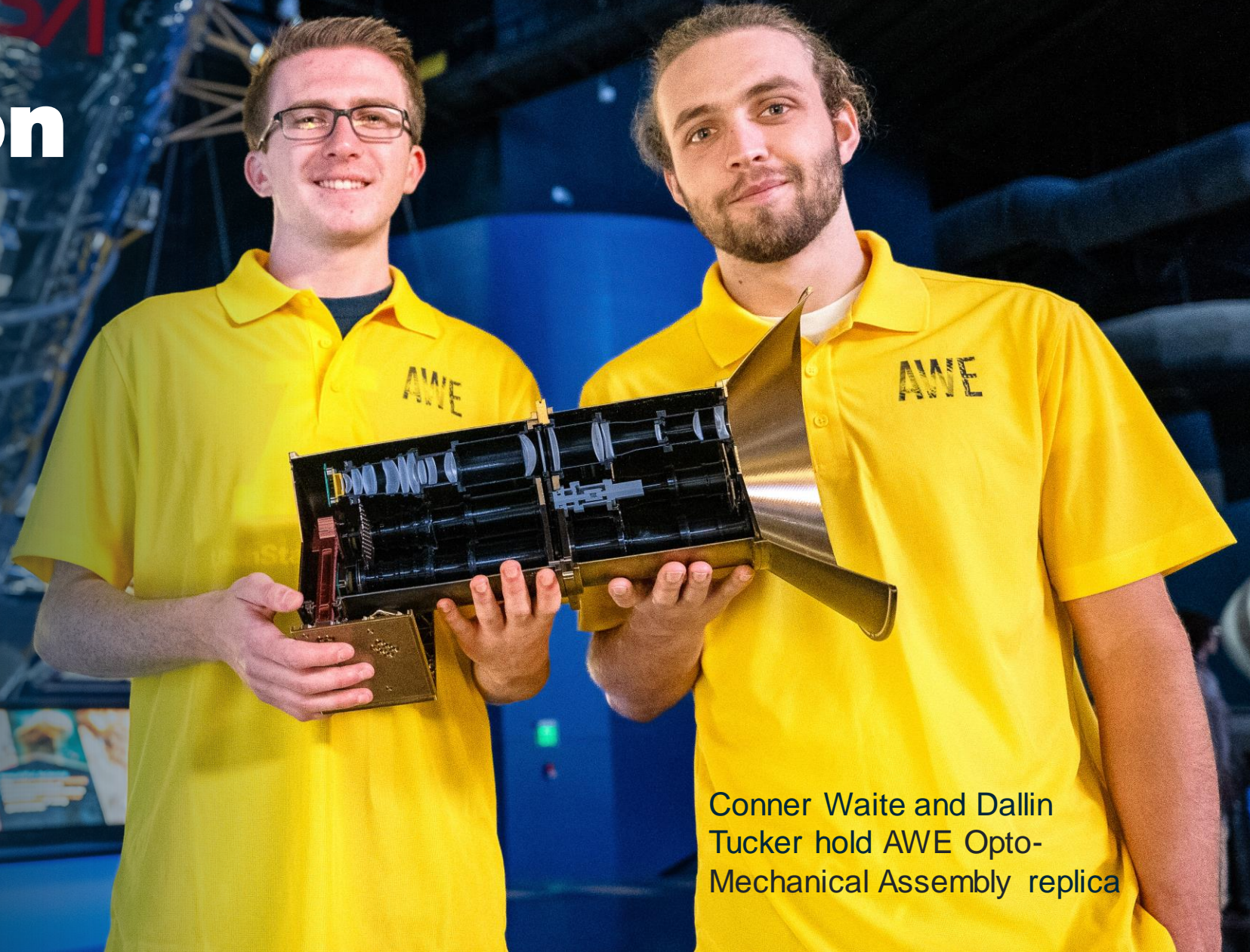


Research

STATE | **UtahStateUniversity**

Research & Innovation

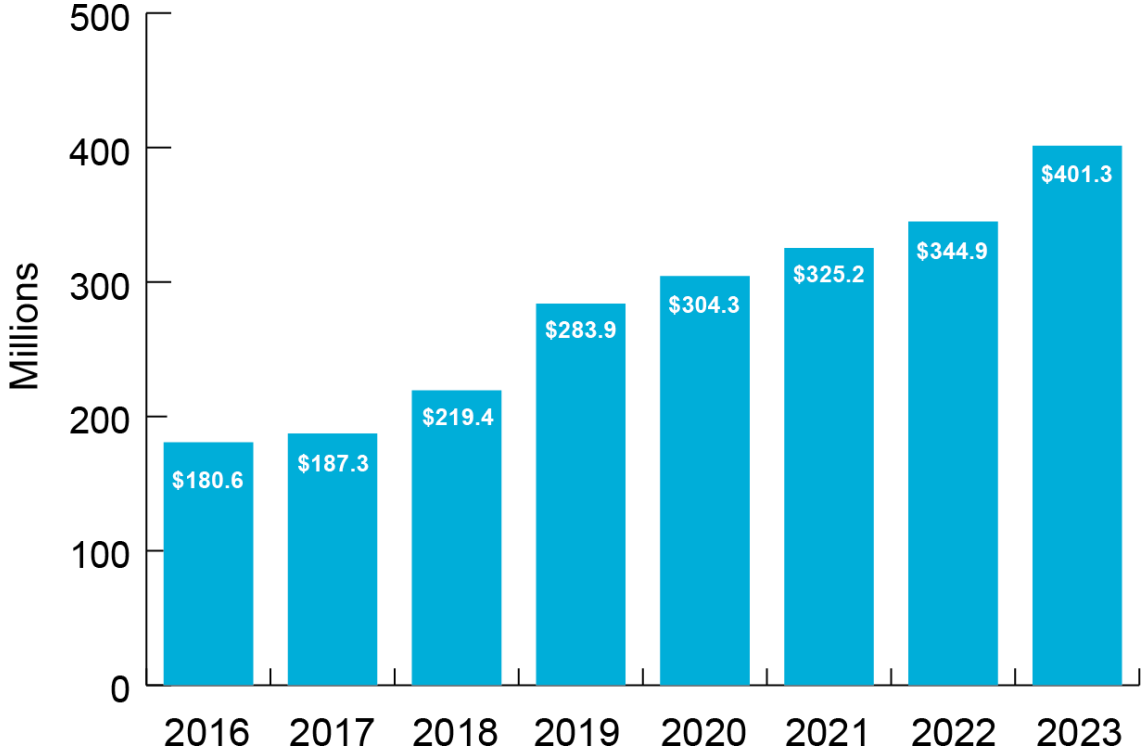
Utah State Aggies
create transformational
impacts through
meaningful research,
particularly in space,
water, land, air, and
quality-of-life questions.



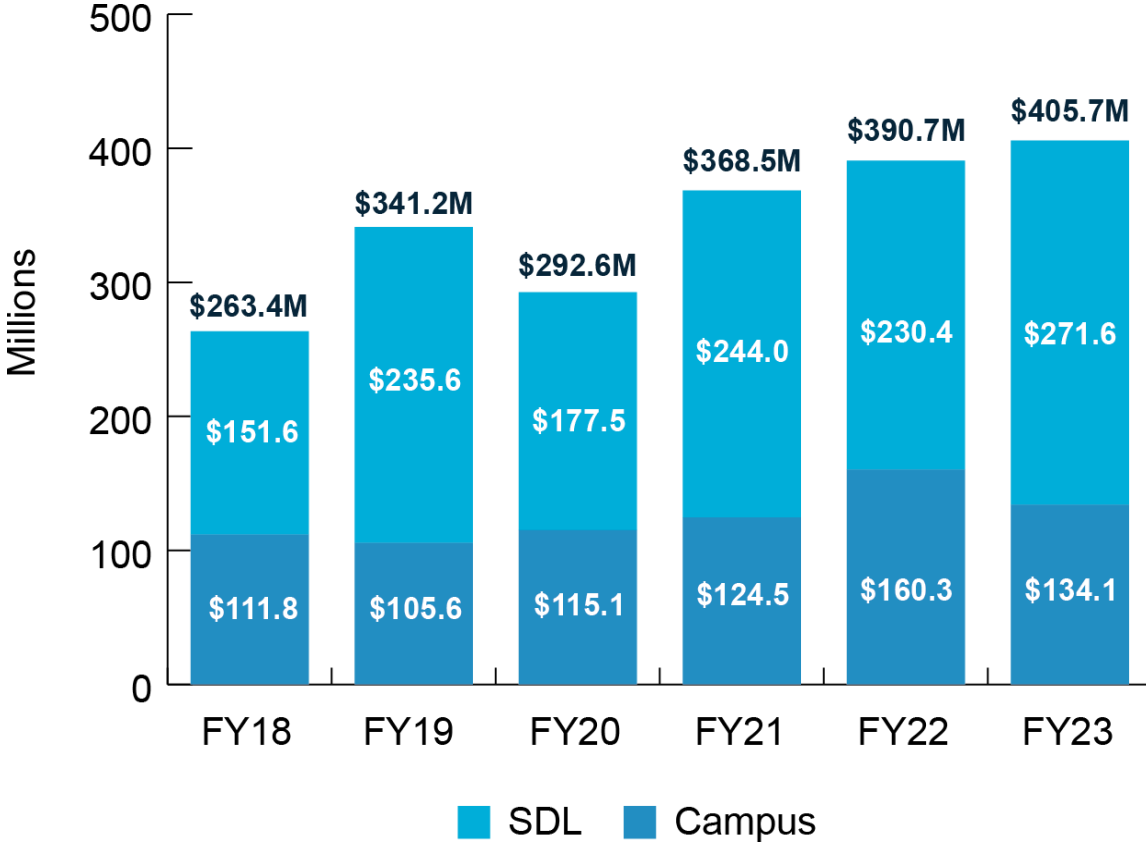
Conner Waite and Dallin
Tucker hold AWE Opto-
Mechanical Assembly replica



Research Expenditures



Research Awards



Research Expenditures: Peer Group

Institution	(\$M) Expenditures	Expenditures Ranking
	FY22	FY22
Colorado State University	456.9	64
Washington State University	368.4	77
Utah State University	344.9	83
University of Nebraska-Lincoln	340.3	87
Oregon State University	297.9	99
Kansas State University	213.0	127
Montana State University	200.8	135
University of Nevada-Reno	181.8	139
University of Wyoming	139.8	152
New Mexico State University	121.5	163



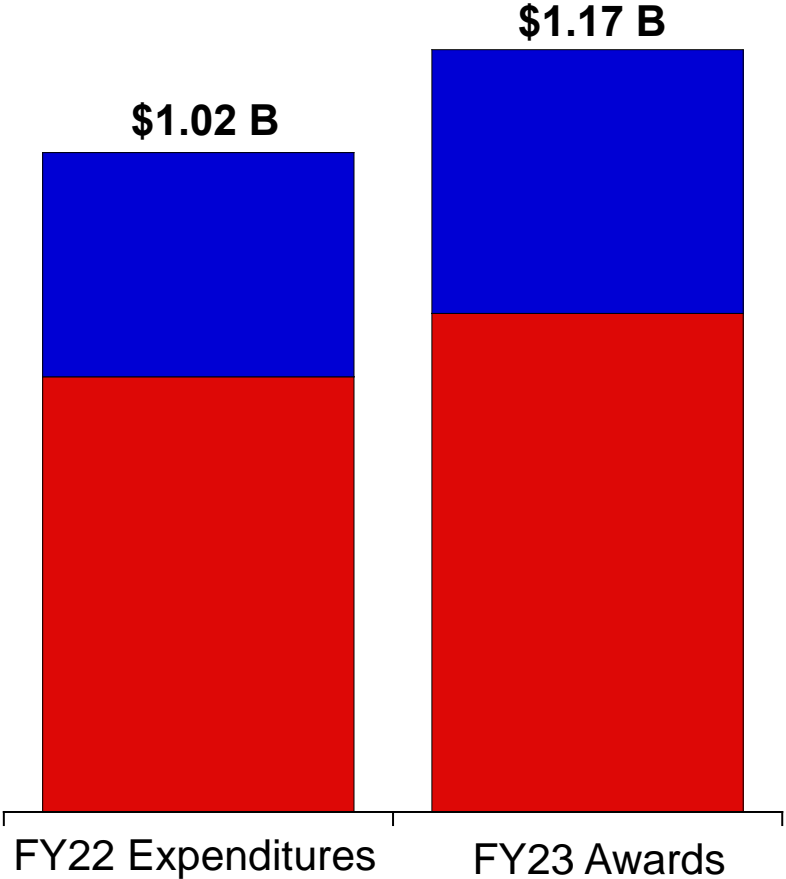
Research at Utah's R1 Universities: A Billion Dollar Enterprise



UtahState
University



THE
UNIVERSITY
OF UTAH®





Space Dynamics Lab Outcomes

- **Applied research and development** supporting national security and scientific discovery
- **AWE mission** successfully launched on SpaceX CRS29 vehicle November 2023
- **OSIRIS-REx** sample returned September 2023
- **SunRISE** spacecraft delivered to JPL
- **Air Force** \$1B, 10-year contract

Space Dynamics Laboratory

Economic Impact

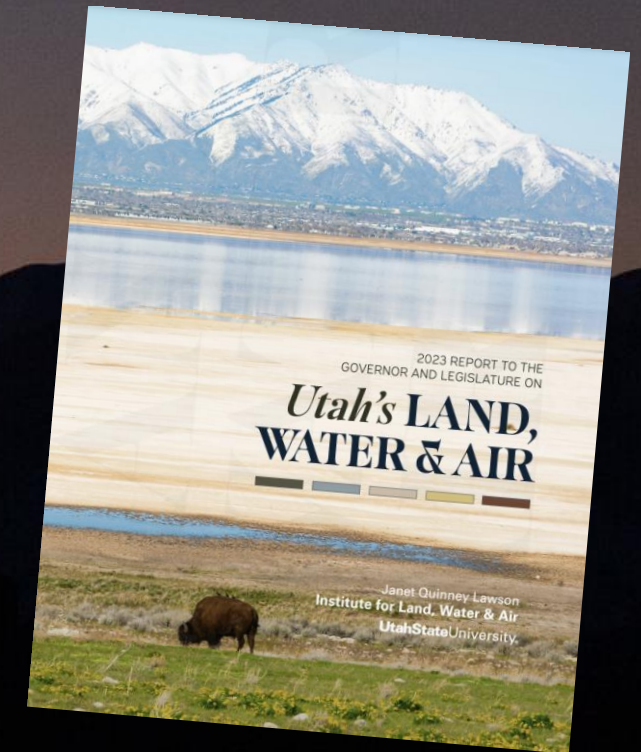


Employee Growth: **+41%** in last five years

- **~1,200** employees
- **~1,100** are based in Utah
- **28%** of FY21 Utah hires came from out of state
- **~115** STEM staff expected to be hired in 2024
- **~200** USU students employed
- **\$157M** in wages and benefits
- **\$118,400** average salary
- **\$25.91** average part-time employee hourly rate

Janet Quinney Lawson Institute for Land, Water and Air (ILWA)

- Report to the Governor and Legislature on Utah's Land, Water, and Air
 - Research, news, legislative summaries
 - 2023 featured chapters:
Colorado River and Energy
- Selected impact projects
 - Great Salt Lake Strike Team
 - Bear Lake Needs Assessment
 - Electrification analysis



usu.edu/ilwa/



Bringing War Home

One of the main goals of this project is to create opportunities that **engage veterans, military families, students, and communities throughout Utah** in ongoing conversations exploring the many dimensions of recent American and international conflicts.

Project Highlights

- **116** Students involved
- **10** Communities involved
- **23** Institutional and community partners
- **74** Oral History Accounts Archived
(25 from veterans and 39 from military families)
- **211** Object Stories Archived



NATIONAL
ENDOWMENT
FOR THE
HUMANITIES

usu.edu/mountainwest/bringing-war-home/

Research Outreach & the Land-grant Mission



Matt Yost – Agroclimate Extension Specialist



Maren Wright-Voss –
Health & Wellness Extension Specialist
Salt Lake and Tooele Counties



ASPIRE by the Numbers

- **\$68M** to date, additional \$56M committed funding
- **400+** Faculty, students & staff
- **14** Patents awarded
- **11,500+** Attendees reached through events
- **140+** Peer reviewed publications
- **60+** Industry & Innovation (IIB) members



Dr. Regan Zane
Director & Professor



Integration of Research & Teaching

Undergraduate Research

Learning Outside the Classroom through Research and Creative Activities



Council on Undergraduate Research

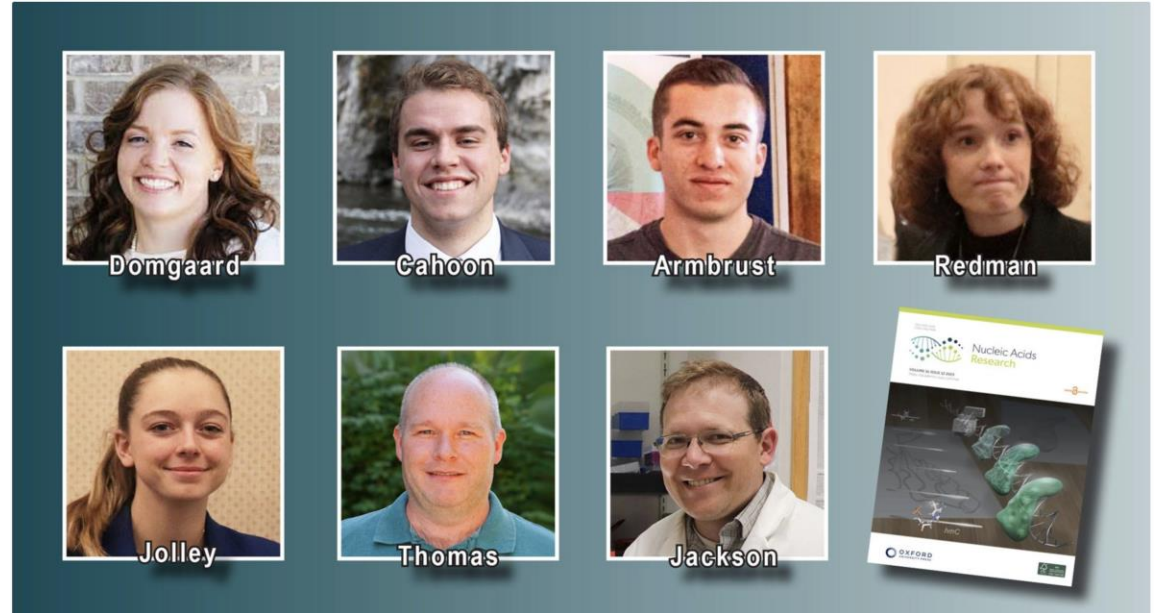
2021 AURA Award from Council on Undergraduate Research



Student Research in Action



July 2023, International Future Energy Challenge, Hannover, Germany: USU Engineering Electronics – **Best Team Effort (3rd place overall)**



Student and faculty authors from Dr. Ryan Jackson's lab publish groundbreaking work describing the structure of **a newly-discovered CRISPR immune system**, August 2023.



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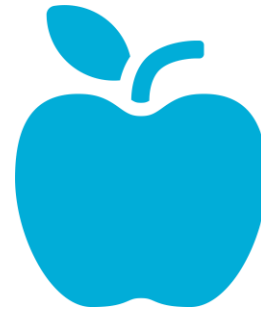
Joint Research Centers for the future of UTAH



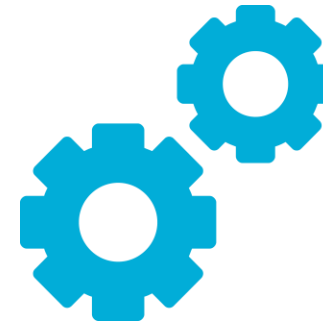
Artificial
Intelligence (AI)



Health Science
& Public Health



The Future
of Food



Advanced
Manufacturing
& Robotics



Biotech &
Life Sciences



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