

65 LEADING RESEARCH UNIVERSITIES



ENGINEERING SCHOOLS









CERTIFICATION PROGRAMS







PRIVATE JNIVERSITIES

Founded in 1900, the Association of American Universities is composed of America's leading research universities. AAU's 65 research universities transform lives through education, research, and innovation. Our member universities earn the majority of competitively awarded federal funding for research that improves public health, seeks to address national challenges, and contributes significantly to our economic strength, while educating and training tomorrow's visionary leaders and innovators.



ECONOMIC IMPACT

Patents in 2020



Technology license agreements in 2020



Current Fortune startups in 2020 100 CEOs¹

VALUE

of AAU students graduate within 6 years2

of AAU students graduate debt-free

EDUCATION 2020 Data

AAU universities make up only 3% of all 4-year universities in the U.S., yet award nearly 41% of all research doctorate degrees.

> Non-AAU member

3% AAU member

doctorate awarded b non-AAÚ

% Degrees awarded by AAU universities



48% of all research doctoral degrees in STEM and Social Sciences



20% of all undergrad degrees in STEM and Social Sciences



58% of all research doctoral degrees in Arts, **Humanities, and Music**



14% of all undergrad degrees in Arts, **Humanities, and Music**

RESEARCH

Federal research dollars awarded in 2020

¹ CEOs who attended an AAU university as of 2021. 2 2020 graduation rate at AAU universities. 3 Not including professional doctoral degrees.



EMPLOYEES



794,947 **Total employees** at AAU universities in 2020

SALARIES



\$100.4 Billion

Total salaries paid by AAU universities in 2020

EMPLOYMENT



25 in Top 10

25 AAU universities were among the top 10 employers in their state as of 2020

ENTREPRENEURS



38 in Top 50

38 AAU universities were in the top 50 for producing venture-capital-backed entrepreneurs as of 2020

PATENTS



5,583

Patents issued in 2020

LICENSES



5,241

Technology license agreements in 2020

TOTAL STARTUPS



Cumulative operational startup companies formed as of 2020

STARTUPS IN 2019



Startup companies formed in 2020

HOME STATE COs



Startup companies created in home state in 2020

ECONOMIC IMPACT OVER TIME (2010-20)



AAU2022



DEGREES AWARDED BY AAU UNIVERSITIES IN THE U.S. AS OF 2020



560,239 **Total Degrees**



Research Doctorates



Professional Practice Doctorates



177,899 Master's Degrees



325,437

Bachelor's Degrees

GRADUATES OF AAU UNIVERSITIES



Governors



Members of Congress



Joint Chiefs of Staff



U.S. Presidents 1900-2021



Current U.S. O Supreme O Court Justices



Supreme Court Justices 1900-2021



Fortune 100 **CEOs in 2021**









Degrees in 2020

In 2020, AAU institutions awarded 48% of all research doctoral degrees and 20% of all undergraduate degrees in STEM and Social Sciences

53% Math &

Computer

Sciences

RESEARCH DOCTORAL DEGREES in STEM out of National Total (2020)

59% Physical Sciences **56% Engineering**

42% Life

Sciences

37% Psychology & Social Sciences

BACHELOR'S DEGREES in STEM out of National Total (2020)

28% Engineering

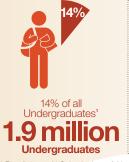
Physical Sciences

Math & Computer Sciences

Psychology & Social Sciences

13% Sciences

STUDENTS AT AAU UNIVERSITIES IN 2020





21% of all Graduate Students¹ 668,824 **Graduate Students**



68% of all Postdocs³ **Total Postdocs**



40% of all International Students³ International Students

aau.edu



29% of all Study Abroad Students Study Abroad

1 For all 4-year U.S. institutions. 2 Number of Postdocs in 2019. 3 Number of International Students in 2021.



VALUE

INSTITUTIONAL GRANT AID IN 2020

TYPE OF AID TOTAL \$3.1 Billion Institutional Grants TOTAL Federal Loans \$2.94 Billion \$2.23 Billion TOTAL \$3.0B Federal Grants \$2.17 Billion \$2.76 Billion TOTAL In 2020, TOTAL \$2.63 Billion TOTAL \$2.01 Billion institutional grant \$2.53 Billion \$2.46 Billion aid made up 74% \$1.88 Billion of the total financial \$2.5B \$1.79 Billion \$1.69 Billion aid awarded to students at AAU universities. \$2.0B \$1.5B \$1.0B \$456.85 Million \$416.30 Million \$503.32 Million \$463.19 Million \$474.93 Million \$481.79 Million \$0.5B \$367.09 Million \$317.48 Million \$270.87 Million \$270.66 Million \$291.20 Million \$269.41 Million 2014-15 2015-16 2017-18 2018-29 2019-20 2016-17

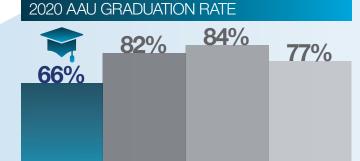
STUDENT DEBT



In 2020, only 4 out of 10 graduating seniors from AAU universities had debt, while 6 out of 10 graduating seniors from public and non-profit universities had debt.



Public and private non-profit seniors with debt



6 YEARS

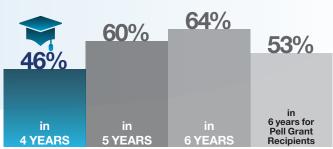
in

5 YEARS

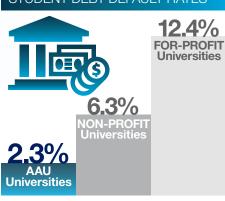
in

4 YEARS

2020 GRADUATION RATE AT ALL U.S. BACHELOR'S DEGREE GRANTING INSTITUTIONS



STUDENT DEBT DEFAULT RATES



in

6 years for

Pell Grant

Recipients



FEDERALLY FUNDED ACADEMIC RESEARCH AND DEVELOPMENT IN 20201

Department of Agriculture	Department of Defense	Department of Energy	Department of Health and Human Services (including NIH)	National Aeronautics and Space Administration	National Science Foundation	Other Federal Departments and Agencies	Total federal R&D at AAU universities
\$25B							63%
\$20B			65%				
\$15B							
\$10B							
\$5B	66%	64%		67%	60%	48%	

\$409.7 Million \$4.69 Billion \$1.29 Billion \$16.4 Billion \$1.18 Billion \$3.24 Billion \$1.52 Billion \$28.8 Billion

1 % of total amount awarded to AAU Universities / total dollar amount received by AAU Universities

HONORS & AWARDS





62% of all American Academy of Arts and Sciences Fellows 01 **Elected American** Academy of Arts and Sciences Fellows affiliated with **AAU** universities



Academy of Inventors • National Academy of Inventors **Member Institutions**



\$21.7 Billion Total private research expenditures in 2020



39% of all winners are at AAU universities

NATIONAL MEDAL OF SCIENCE 73%

73% of all awardees are affiliated with an AAU university

SCHOLARLY OUTPUT







2, 3 Thomson-Reuters InCites 4 2020 Academic Analytics

RESOURCES



research parks



78 university accelerator programs



in institutional contributions to research and development