**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

- **4,826** Patents in 2018
- **5,134** Technology license agreements in 2018
- **4,039** Total operational startups in 2018
- **64** Current Fortune 100 CEOs*

### VALUE

- **83%** of students graduate within 6 years**
- **57%** AAU students who graduate debt-free

### EDUCATION 2017 Data

- **98%** Non-AAU member universities
- **2%** AAU member universities
- **57%** Research doctorates awarded by non-AAU member universities
- **43%** Research doctorates awarded by AAU member universities

- **53%** of all doctoral degrees in Arts, Humanities, and Music
- **50%** of all doctoral degrees in STEM and Social Sciences
- **18%** of all undergrad degrees in STEM and Social Sciences
- **14%** of all undergrad degrees in Arts, Humanities, and Music

### RESEARCH

- **$25.6 BILLION** Federal research dollars awarded in 2018

---

*CEOs who attended an AAU university as of 2019.
**2018 graduation rate at AAU universities.
***Not including professional doctoral degrees.
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**ABOUT AAU**

**EDUCATION 2017 Data**

AAU universities make up only 2% of all 4-year universities in the U.S., yet award nearly 43% of all research doctorate degrees.***

- 98% Non-AAU member universities
- 2% AAU member universities
- 57% Research doctorates awarded by non-AAU member universities
- 43% Research doctorates awarded by AAU member universities

**% Degrees awarded by AAU universities**

- 98% of all doctoral degrees in STEM and Social Sciences
- 50% of all doctoral degrees in Arts, Humanities, and Music
- 53% of all undergraduate degrees in Arts, Humanities, and Music
- 14% of all undergraduate degrees in Sciences and Engineering
- 18% of all undergraduate degrees in Business

**ECONOMIC IMPACT**

- 4,826 Patents in 2018
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**VALUE**

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*CEOs who attended an AAU university as of 2019. **2018 graduation rate at AAU universities. ***Not including professional doctoral degrees.
780,060
Total employees
at AAU universities in 2018

$82.4 Billion
Total salaries
paid by AAU universities in 2018

25 in Top 10
25 AAU universities were among the top 10 employers in their state as of 2018

41 in Top 50
41 AAU universities were in the top 50 for producing venture capital backed entrepreneurs as of 2019

ECONOMIC IMPACT OVER TIME (2008–18)


- Patents
- Licenses
- Total operational startups

4,826
Patents issued in 2018

5,134
Technology license agreements in 2018

4,039
Cumulative operational startup companies formed as of 2018

663
Startup companies formed in 2018

427
Startup companies created in home state in 2018
ECONOMIC IMPACT

EMPLOYEES
- 780,060 Total employees at AAU universities in 2018

SALARIES
- $82.4 Billion Total salaries paid by AAU universities in 2018

EMPLOYMENT
- 25 in Top 10
  - 25 AAU universities were among the top 10 employers in their state as of 2018

ENTREPRENEURS
- 41 in Top 50
  - 41 AAU universities were in the top 50 for producing venture capital backed entrepreneurs as of 2019

PATENTS
- 4,826 Patents issued in 2018

LICENSES
- 5,134 Technology license agreements in 2018

ECONOMIC IMPACT OVER TIME (2008–18)

- Cumulative operational startup companies formed as of 2018: 4,039
- Startup companies created in home state in 2018: 663
- Technology license agreements in 2018: 5,134
- Patents issued in 2018: 4,826

Additional data includes:
- Technology license agreements in 2018: 5,134
- Cumulative operational startup companies formed as of 2018: 4,039
- Startup companies created in home state in 2018: 663
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- Patents issued in 2018: 4,826
In 2017, AAU institutions awarded 50% of all research doctoral degrees and 18% of all undergraduate degrees in STEM and Social Sciences.

**DEGREES AWARDED BY AAU UNIVERSITIES IN THE U.S. AS OF 2018**

- **Total Degrees**: 531,026
- **Research Doctorates**: 31,132
- **Professional Practice or Other Doctorates**: 25,288
- **Master’s Degrees**: 166,155
- **Bachelor’s Degrees**: 307,831

In 2017, AAU institutions awarded 50% of all research doctoral degrees and 18% of all undergraduate degrees in STEM and Social Sciences.

**RESEARCH DOCTORAL DEGREES** in STEM out of National Total (2017)

- **Physical Sciences**: 59%
- **Engineering**: 58%
- **Life Sciences**: 46%
- **Psychology & Social Sciences**: 39%
- **Math & Computer Sciences**: 54%

**BACHELOR DEGREES** in STEM out of National Total (2017)

- **Physical Sciences**: 30%
- **Engineering**: 25%
- **Life Sciences**: 14%
- **Psychology & Social Sciences**: 21%
- **Math & Computer Sciences**: 9%

**STUDENTS AT AAU UNIVERSITIES IN 2018**

- **Undergraduates**: 1.3 million
- **Graduate Students**: 641,073
- **Total Postdocs**: 44,295
- **International Students**: 388,485
- **Study Abroad Students**: 93,199

*For all 4-year U.S. institutions. **Number of Postdocs in 2017.

**GRADUATES OF AAU UNIVERSITIES**

- **Governors in 2019**: 24
- **Members of Congress in 2019**: 268
- **Joint Chiefs of Staff in 2019**: 5
- **U.S. Presidents 1900–2019**: 13
- **All 9 current U.S. Supreme Court Justices**: 9
- **Supreme Court Justices 1900–2019**: 45
- **Fortune 100 CEOs in 2019**: 64
- **Teachers in 2018**: 8,890
- **Medical Degrees in 2019**: 6,667
- **Dental Degrees in 2018**: 2,497
- **Nursing Degrees in 2018**: 9,382
DEGREES AWARDED BY AAU UNIVERSITIES IN THE U.S. AS OF 2018

- Total Degrees: 531,026
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- Physical Sciences: 30%
- Engineering: 25%
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- Life Sciences: 13%
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STUDENTS AT AAU UNIVERSITIES IN 2018

- Undergraduates: 1.3 million (12% of all Undergraduates)
- Graduate Students: 641,073 (21% of all Graduate Students)
- Postdocs: 44,295 (68% of all Postdocs)
- International Students: 388,485 (36% of all International Students)
- Study Abroad Students: 93,199 (28% of all Study Abroad Students)

**For all U.S. 4-year institutions. **Number of Postdocs in 2017.
### FEDERALLY FUNDED ACADEMIC RESEARCH AND DEVELOPMENT IN 2018*

<table>
<thead>
<tr>
<th>Department</th>
<th>Amount</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Agriculture</td>
<td>$25B</td>
<td>61%</td>
</tr>
<tr>
<td>Department of Defense</td>
<td>$20B</td>
<td>59%</td>
</tr>
<tr>
<td>Department of Energy</td>
<td>$15B</td>
<td>63%</td>
</tr>
<tr>
<td>Department of Health and Human Services (including NIH)</td>
<td>$10B</td>
<td>59%</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>$5B</td>
<td>48%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>$1.2 Billion</td>
<td>67%</td>
</tr>
<tr>
<td>Other Federal Departments and Agencies</td>
<td>$438 Million</td>
<td>37%</td>
</tr>
</tbody>
</table>

*% of total amount awarded to AAU universities / total dollar amount received by AAU universities

### HONORS & AWARDS
- **54%** of all National Academy Members are at AAU universities (3,836)
- **70%** of all American Academy of Arts and Sciences Fellows are at AAU universities (3,486)
- **89%** of all National Academy of Inventors Member Institutions are at AAU universities (56)

### SCHOLARLY OUTPUT
- **21.4 Million** Citations (2014-2018)*
- **2.4 Million** Publications (2014-2018)*
- **60,945** Books (2009-2018)**

### RESOURCES
- **22** research parks
- **65** startup and early stage technology investment programs
- **73** university accelerator programs
- **$10.8B** in institutional contributions to research and development

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*Thomson-Reuters InCites**

**2018 Academic Analytics**

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Association of American Universities | 1200 New York Ave, Washington, DC | aau.edu | @AAUniversities |
Federally Funded Academic Research and Development in 2018*

<table>
<thead>
<tr>
<th>Department</th>
<th>Federal R&amp;D at AAU Universities</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
</tr>
<tr>
<td>Other Federal Departments and Agencies</td>
<td></td>
</tr>
<tr>
<td>Total federal R&amp;D at AAU universities</td>
<td>$25B</td>
</tr>
</tbody>
</table>

*% of total amount awarded to AAU universities / total dollar amount received by AAU universities

Scholarly Output

- 21.4 Million Citations (2014-2018)*
- 2.4 Million Publications (2014-2018)*
- 60,945 Books (2009-2018)**

Honors & Awards

- 54% of all National Academy Members
- 70% of all American Academy of Arts and Sciences Fellows
- 89% of all National Academy of Inventors
- 38% of all winners are at AAU universities
- 78% of recipients are at AAU universities (of university winners)
- 73% of all awardees are affiliated with an AAU university

Resources

- 22 research parks
- 65 startup and early stage technology investment programs
- 73 university accelerator programs
- $10.8 B in institutional contributions to research and development

Sustainable Development

- 60% startup and early stage technology investment programs
- 73% university accelerator programs
- $10.8 B in institutional contributions to research and development
In 2018, only 4 out of 10 graduating seniors from AAU universities had debt, while 7 out of 10 graduating seniors from non-AAU universities had debt.
### Institutional Student Grant Aid in 2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Institutional Grants</th>
<th>Federal Loans</th>
<th>Federal Grants</th>
<th>Total Financial Aid</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012-13</td>
<td>$1.51 Billion</td>
<td>$515.02 Million</td>
<td>$260.69 Million</td>
<td>$2.286 Billion</td>
</tr>
<tr>
<td>2013-14</td>
<td>$1.59 Billion</td>
<td>$502.91 Million</td>
<td>$265.31 Million</td>
<td>$2.359 Billion</td>
</tr>
<tr>
<td>2014-15</td>
<td>$1.67 Billion</td>
<td>$501.71 Million</td>
<td>$269.80 Million</td>
<td>$2.441 Billion</td>
</tr>
<tr>
<td>2015-16</td>
<td>$1.77 Billion</td>
<td>$473.67 Million</td>
<td>$268.26 Million</td>
<td>$2.415 Billion</td>
</tr>
<tr>
<td>2016-17</td>
<td>$1.86 Billion</td>
<td>$480.62 Million</td>
<td>$269.87 Million</td>
<td>$2.63 Billion</td>
</tr>
<tr>
<td>2017-18</td>
<td>$1.99 Billion</td>
<td>$462.06 Million</td>
<td>$290.44 Million</td>
<td>$3.744 Billion</td>
</tr>
</tbody>
</table>

### 2018 AAU Graduation Rate

- **65%** in 4 years
- **81%** in 5 years
- **83%** in 6 years

### 2018 National Graduation Rate

- **44%** in 4 years
- **59%** in 5 years
- **63%** in 6 years

### Student Debt Default Rates

- **14.3%** FOR-PROFIT Universities
- **6.9%** NON-PROFIT Universities
- **2.8%** AAU Universities
- **4%** in 4 years
- **7** in 5 years
- **Pell Grant Recipients** in 6 years

In 2018, only 4 out of 10 graduating seniors from AAU universities had debt, while 7 out of 10 graduating seniors from non-AAU universities had debt.