FY21
Research Expenditure and Proposal Activities
Insights

Proposals
15.4% Number of Proposals
22.3% Amount Requested

Awards
24.4% Projected Award Amount

Expenditures
$203.1M Total Expenditures - NSF
$114.3M Sponsored Expenditures

Comparison
UH’s total research expenditures in FY20 ahead of Texas Tech and Rice
Insights

Engineering
Leader in number of awards (105) and award amount ($42.7M). Rise in research expenditures from $33.8M to $37.4M.

CLASS
Increase in number of awards (from 42 to 69) and total award amounts (from $8.17M to $29.7M)

Medicine
Increase in awards from $480K (4 awards) to $2.15M (12 awards)

Department Leaders
Leaders for research expenditure per ranked faculty:
Pharmacy $295K
Engineering $265K
Social Work $193K
Total Research Expenditures – NSF-Reported

- FY12: $116
- FY13: $131
- FY14: $141
- FY15: $151
- FY16: $162
- FY17: $169
- FY18: $177
- FY19: $195
- FY20: $201
- FY21: $203
Sponsored Expenditures

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*Total amount received/projected to be received from funding agencies during the lifetime of the award.

# Awards Received

- FY12: 417
- FY13: 407
- FY14: 404
- FY15: 372
- FY16: 406
- FY17: 359
- FY18: 381
- FY19: 319
- FY20: 339
- FY21: 399
Proposal Success

*Proposals submitted in FY19 may have been rewarded in FY20
Research Expenditures - Sources

*Total amount expended in projects funded through external sources

$114,298,128

Federal 72.09%

State 11.88%

Profit 8.07%

Non-Profit 7.34%

Foreign Gov't .35%

Local Gov't .08%

University .27%
Federal Expenditures

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Research Awards - Sources

*Total amount received/projected to be received from funding agencies during the lifetime of the award

- Federal: 79.9%
- Non-Profit: 5.83%
- Profit: 8.97%
- State: 3.39%
- State Inst./Univ.: .91%
- University: .74%
- Foreign Gov't: .26%
- Local Gov't: 0%

Total: $114,646,765
DOR Centers – FY21 Proposals

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# Proposals Submitted

- TIMES: 97
- HRI: 22
- TcSUH: 36
- HuRRI: 6
- AMI: 20
- HPE-DSI: 2
DOR Centers – FY21 Awards

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# Awards Received
DOR Centers – FY21 Expenditures

- TIMES: $3.5 million
- TcSUH: $1.3 million
- HRI: $1.1 million
- AMI: $688k
- CCME: $69k
- HPE-DSI: $20.9k
Proposals
Total Funds Requested >$1M

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Total Funds Requested $250k-$999k

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# Proposals Submitted

- FY12: 386
- FY13: 380
- FY14: 408
- FY15: 431
- FY16: 459
- FY17: 411
- FY18: 400
- FY19: 439
- FY20: 422
- FY21: 471
Number of Proposals Submitted >$250k-$999k

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Total Funds Requested <$250k

- FY21: $63
- FY20: $682
- FY19: $608
- FY18: $66
- FY17: $66
- FY16: $61
- FY15: $60
- FY14: $54
- FY13: $57
- FY12: $59

# Proposals Submitted

- FY12: 652
- FY13: 603
- FY14: 570
- FY15: 726
- FY16: 674
- FY17: 686
- FY18: 728
- FY19: 652
- FY20: 608
- FY21: 682

University of Houston Division of Research
Number of Proposals Submitted <$250k

- FY12: 652
- FY13: 603
- FY14: 570
- FY15: 726
- FY16: 674
- FY17: 686
- FY18: 728
- FY19: 652
- FY20: 608
- FY21: 682
Awards
New Awards Funded >$1M

[Bar chart showing the number of awards received (FY12 to FY21) and the millions of dollars funded (FY12 to FY21).]

# Awards Received

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New Awards Funded $250k-$999k

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New Awards Funded <$250k

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College Proposals, Awards and Expenditures
FY21 College Proposals – PI Affiliation

## # Proposals Submitted

- **EGR**: 404
- **NSM**: 313
- **CLASS**: 206
- **PHAR**: 121
- **EDU**: 85
- **TECH**: 102
- **OPT**: 39
- **SW**: 36
- **COM**: 24
- **BUS**: 8
- **HON**: 7
- **HOB**: 3
- **HRM**: 3
- **NURS**: 4
- **ARTS**: 6
- **LAW**: 4
- **ARCH**: 6

### Millions

- **EGR**: $298
- **NSM**: $186
- **CLASS**: $125
- **PHAR**: $124
- **EDU**: $45
- **TECH**: $39
- **OPT**: $27
- **SW**: $23
- **COM**: $16
- **BUS**: $6
- **HON**: $5
- **HOB**: $21k
- **HRM**: $641k
- **NURS**: $444k
- **ARTS**: $314k
- **LAW**: $273k
- **ARCH**: $249k

# Proposals Submitted
FY21 College Proposals – PI and Co-PI Affiliation

# Proposals Submitted
*Distribution of amount is based on the FA Split approved in the transmittal
College Funds Requested – PI Affiliation

$924,669,492

EGR, 32.26%
NSM, 20.13%
CLASS, 13.47%
PHAR, 13.45%
EDU, 4.86%
TECH, 4.24%
OTHER, 2.96%
OPT, 2.88%
SW, 2.49%
COM, 1.49%
BUS, 0.69%
HON, 0.52%
HRM, 0.07%
NURS, 0.05%
LAW, 0.03%
ARCH, 0.03%
ARTS, 0.03%
HOB, 0.09%
HRM, 0.07%
NURS, 0.05%
LAW, 0.03%
ARTS, 0.03%
ARCH, 0.03%
College Funds Requested – PI and Co-PI Affiliation

Total Requested: $924,669,492

- EGR, 31.61%
- NSM, 21.53%
- PHAR, 13.11%
- CLASS, 12.84%
- EDU, 5.73%
- TECH, 3.90%
- OPT, 3.18%
- SW, 2.50%
- OTHER, 2.35%
- BUS, 0.87%
- HON, 0.45%
- HOB, 0.16%
- LAW, 0.09%
- HRM, 0.11%
- NURS, 0.05%
- ARTS, 0.03%

*Distribution of amount is based on the FA Split approved in the transmittal
FY21 College Awards – PI Affiliation

# Awards Received

- EGR: 103
- CLASS: 62
- NSM: 29
- EDU: 91
- PHAR: 29
- SW: 28
- TECH: 6
- BUS: 31
- COM: 3
- OPT: 10
- NURS: 13
- HRM: 5
- ARTS: 4
- LAW: 4
- HOB: 3
- ARCH: 1
- HON: 2

Millions

- $765K
- $554K
- $185K
- $156K
- $140K
- $100K
- $43K
- $9K
FY21 College Awards – PI and Co-PI Affiliation

# Awards Received
*Distribution of amount is based on the FA Split approved in the transmittal
College Projected Award Amount – PI Affiliation

$144,646,765

EGR, 29.61%
CLASS, 20.18%
NSM, 15.28%
EDU, 13.86%
PHAR, 7.44%
SW, 5.16%
TECH, 2.43%
OTHER, 1.28%
BUS, 2.32%
COM, 1.10%
OPT, 0.53%
NURS, 0.38%
HRM, 0.13%
ARTS, 0.11%
LAW, 0.10%
HOB, 0.07%
ARCH, 0.03%
HON, 0.01%

$144,646,765
College Projected Award Amount – PI and Co-PI Affiliation

$144,646,765

*Distribution of amount is based on the FA Split approved in the transmittal
FY21 College Research Expenditures

*All expenditures herein are distributed based on the FA Split as approved in the transmittal for all investigators involved in the project.
All expenditures herein are distributed based on the FA Split as approved in the transmittal for all investigators involved in the project.
College Research Expenditures Per Ranked Faculty >$100K

- PHAR: $295k
- EGR: $265k
- SW: $193k
- OPT: $169k
- NSM: $143k
Academic Department Productivity
Top 20 Department Research Expenditures

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<tr>
<td>PHLS</td>
<td>$3.3</td>
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<tr>
<td>MATH</td>
<td>$2.9</td>
</tr>
<tr>
<td>PE</td>
<td>$2.5</td>
</tr>
<tr>
<td>SB</td>
<td>$2.5</td>
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<tr>
<td>CS</td>
<td>$2.4</td>
</tr>
<tr>
<td>PHOP</td>
<td>$2.4</td>
</tr>
</tbody>
</table>
Department Research Expenditures – Top 10

- CHE: 7.9%
- PSYC: 7.3%
- BIO: 6.7%
- ECE: 6.4%
- PPS: 6.0%
- BME: 5.6%
- ME: 5.5%
- EAS: 5.3%
- CHEM: 5.3%
- 64 Others: 44.1%

Total: $114,298,128
Department Research Expenditures Per Ranked Faculty

- Chemical Engineering: $477,233
- Biomedical Engineering: $356,975
- Pharmacy Practice & Translational Research: $472,454
- Pharmacological & Pharmaceutical Sciences: $265,007
- Pharmacy Health Outcomes & Policy: $301,226
Department Research Expenditures Per Ranked Faculty

- Chemical Engineering: $477,233
- Pharmacy Practice & Translational Research: $472,454
- Biomedical Engineering: $356,975
- Pharmacological & Pharmaceutical Sciences: $265,007
- Civil Engineering: $232,446
- Mechanical Engineering: $260,901
- Petroleum Engineering: $209,738
- Psychology: $224,798
- Chemistry: $214,247
Active Projects and Expenditures
Per Faculty Rank
FY21
# Total Ranked Faculty with Projects – Academic Colleges

![Graph showing the number of ranked faculty with projects in academic colleges. The graph is divided into four categories: No Projects, One Project, Two Projects, and Three+ Projects. For each category, the graph further breaks down into Professor, Associate, and Assistant ranks.]

- No Projects: 260 (Professor), 114 (Associate), 61 (Assistant)
- One Project: 30 (Professor), 24 (Associate), 27 (Assistant)
- Two Projects: 132 (Professor), 76 (Associate), 43 (Assistant)
- Three+ Projects: 211 (Professor), 55 (Associate), 35 (Assistant)
Active Projects and Expenditures - NSM

- Assistant: 9 No Projects, 7 One Project, 7 Two Projects, 7 Three+ Projects
- Associate: 18 No Projects, 11 One Project, 10 Two Projects, 20 Three+ Projects, $7.5 Millions Expenditures
- Professor: 34 No Projects, 28 One Project, 12 Two Projects, 40 Three+ Projects, $13.7 Millions Expenditures

Faculty in Category

$0 $5 $10 $15 $20 $25

$0 5 10 15 20 25 30 35 40

Expenditures

Faculty in Category

Assistant Associate Professor

Faculty in Category

0 5 10 15 20 25 30 35 40

Faculty in Category
Active Projects and Expenditures - Pharmacy

- **Assistant**
  - No Projects: 1
  - One Project: 2
  - Two Projects: 1
  - Three+ Projects: 2
  - Expenditures: $2.0

- **Associate**
  - No Projects: 3
  - One Project: 3
  - Two Projects: 3
  - Three+ Projects: 8
  - Expenditures: $2.2

- **Professor**
  - No Projects: 3
  - One Project: 3
  - Two Projects: 4
  - Three+ Projects: 9
  - Expenditures: $5.8

Faculty in Category:
- Assistant: 1
- Associate: 8
- Professor: 9
Active Projects and Expenditures - Education

- Assistant Professor:
  - No Projects: 3
  - One Project: 4
  - Two Projects: 2
  - Three+ Projects: 1
  - Expenditures: $0.7

- Associate Professor:
  - No Projects: 7
  - One Project: 8
  - Two Projects: 1
  - Three+ Projects: 8
  - Expenditures: $1.4

- Professor:
  - No Projects: 5
  - One Project: 4
  - Two Projects: 6
  - Three+ Projects: 0
  - Expenditures: $2.4

The chart represents the number of faculty in each category and their expenditures.
Active Projects and Expenditures – Technology

- **Assistant**
  - No Projects: 2
  - One Project: 5
  - Expenditures: $0.9

- **Associate**
  - No Projects: 2
  - One Project: 2
  - Two Projects: 4
  - Expenditures: $0.8

- **Professor**
  - No Projects: 2
  - One Project: 4
  - Expenditures: $2.8

**Units of Measure:**
- Projects: Total number of projects
- Expenditures: Total amount spent in millions

**Categories:**
- Faculty in Category
- Expenditures (Millions)

---

**Note:**
- The chart represents the distribution of projects and expenditures across different faculties and project categories.
Active Projects and Expenditures – Law

Assistant Associate Professor

No Projects

One Project

Two Projects

Three+ Projects

Expenditures

Thousands

Faculty in Category

0

5

10

15

20

25

30

35

40

$0.0

$6.5

$179.7

$0

$50

$100

$150

$200

0

5

10

15

20

25

30

35

40

Assistant

Associate

Professor

No Projects

One Project

Two Projects

Three+ Projects

Expenditures

 Universidad of
HOUSTON
DIVISION OF RESEARCH
Active Projects and Expenditures – HRM

Faculty in Category

Assistant
Associate
Professor

Expenditures

No Projects
One Project
Two Projects
Three+ Projects
Expenditures

$137.4
$0.0
$3.8

$150
$100
$50
$0

Thousands

7
8
6

0
0
0

0
0
0

0
0
0

0
1
0
Active Projects and Expenditures – Nursing

- **Assistant Professor**
  - 2 Faculty
  - $211.1

- **Associate Professor**
  - $0.2

- **Professor**
  - $25
  - $106.6

---

Faculty in Category

- No Projects
- One Project
- Two Projects
- Three+ Projects

Expenditures in Thousands
Active Projects and Expenditures – Hobby

- **Faculty in Category**
  - Assistant
  - Associate
  - Professor

- **Expenditures (in Thousands)**
  - No Projects
  - One Project
  - Two Projects
  - Three+ Projects
  - Expenditures

- **Amounts**: $0.0, $0.0, $14, $0, $5, $10, $15, $20, $25
Grants and Contracts Activity
Assistant Professors
FY17-21

Data Sources: HR Tables, PS HR; Historical Academic Rank, Office of the Provost; RD2K Awards Data Query; PeopleSoft Grants Awards Data Query
Scholarly Contributions

Assessing the productivity and scholarly contributions of faculty is complex and varies between disciplines and even sub-disciplines. The following set of slides includes an assessment of externally funded research in the form of grants and contracts where assistant professors are PIs or co-PIs. There are many other forms of scholarly contributions that faculty in academic units make, including scholarly papers, reports, essays, books, and other forms of sharing intellectual work and outputs.
## Assistant Professor Contracts - NSM

<table>
<thead>
<tr>
<th></th>
<th>Contracts</th>
<th>No Contract</th>
<th>% of Assistant Professors who do not have research contracts</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY17</td>
<td>11</td>
<td>36</td>
<td>23%</td>
</tr>
<tr>
<td>FY18</td>
<td>14</td>
<td>26</td>
<td>35%</td>
</tr>
<tr>
<td>FY19</td>
<td>15</td>
<td>24</td>
<td>38%</td>
</tr>
<tr>
<td>FY20</td>
<td>13</td>
<td>24</td>
<td>35%</td>
</tr>
<tr>
<td>FY21</td>
<td>9</td>
<td>21</td>
<td>30%</td>
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</table>

% of Assistant Professors who do not have research contracts
Assistant Professor Contracts - Engineering

% of Assistant Professors who do not have research contracts

<table>
<thead>
<tr>
<th>Year</th>
<th>Contracts</th>
<th>No Contract</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY17</td>
<td>24</td>
<td>8</td>
</tr>
<tr>
<td>FY18</td>
<td>23</td>
<td>12</td>
</tr>
<tr>
<td>FY19</td>
<td>21</td>
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</tr>
<tr>
<td>FY20</td>
<td>25</td>
<td>6</td>
</tr>
<tr>
<td>FY21</td>
<td>27</td>
<td>4</td>
</tr>
</tbody>
</table>

FY17 FY18 FY19 FY20 FY21
Assistant Professor Contracts - CLASS

% of Assistant Professors who do not have research contracts

<table>
<thead>
<tr>
<th>Year</th>
<th>Contracts</th>
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</tr>
</thead>
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<td>59</td>
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<tr>
<td>FY18</td>
<td>11</td>
<td>48</td>
</tr>
<tr>
<td>FY19</td>
<td>9</td>
<td>53</td>
</tr>
<tr>
<td>FY20</td>
<td>11</td>
<td>50</td>
</tr>
<tr>
<td>FY21</td>
<td>15</td>
<td>37</td>
</tr>
</tbody>
</table>

FY17: 83%
FY18: 81%
FY19: 85%
FY20: 82%
FY21: 71%
Assistant Professor Contracts - Optometry

% of Assistant Professors who do not have research contracts

- FY17: 17% (1/6) contracts, 53% (5/6) no contracts
- FY18: 33% (2/6) contracts, 67% (4/6) no contracts
- FY19: 20% (1/5) contracts, 80% (4/5) no contracts
- FY20: 20% (1/5) contracts, 80% (4/5) no contracts
- FY21: 25% (1/4) contracts, 75% (3/4) no contracts
Assistant Professor Contracts - Pharmacy

% of Assistant Professors who do not have research contracts

- **FY17**: 0% (8 contracts)
- **FY18**: 0% (4 contracts)
- **FY19**: 14% (6 contracts)
- **FY20**: 0% (4 contracts)
- **FY21**: 20% (4 contracts)

**Note:** The chart shows the number of contracts and the percentage of Assistant Professors who do not have research contracts for each fiscal year from FY17 to FY21.
Assistant Professor Contracts - Education

% of Assistant Professors who do not have research contracts

- FY17: 58% (7 contracts, 5 no contracts)
- FY18: 42% (11 contracts, 8 no contracts)
- FY19: 61% (7 contracts, 11 no contracts)
- FY20: 56% (8 contracts, 10 no contracts)
- FY21: 53% (9 contracts, 10 no contracts)

University of Houston
Division of Research
Assistant Professor Contracts - Business

% of Assistant Professors who do not have research contracts

- FY17: 21
- FY18: 23
- FY19: 19
- FY20: 18
- FY21: 17

100% for each year.
Assistant Professor Contracts – Social Work

<table>
<thead>
<tr>
<th>Year</th>
<th>Contracts</th>
<th>No Contract</th>
</tr>
</thead>
<tbody>
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<td>5</td>
</tr>
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<td>4</td>
<td>3</td>
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<td>3</td>
</tr>
<tr>
<td>FY20</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>FY21</td>
<td>2</td>
<td>7</td>
</tr>
</tbody>
</table>

% of Assistant Professors who do not have research contracts
Assistant Professor Contracts – Technology

% of Assistant Professors who do not have research contracts

<table>
<thead>
<tr>
<th>Year</th>
<th>Contracts</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>FY20</td>
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<td>8</td>
</tr>
<tr>
<td>FY21</td>
<td>15</td>
<td>2</td>
</tr>
</tbody>
</table>
Assistant Professor Contracts – Law

% of Assistant Professors who do not have research contracts

<table>
<thead>
<tr>
<th>Year</th>
<th>Contracts</th>
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</tr>
</thead>
<tbody>
<tr>
<td>FY17</td>
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<td>FY18</td>
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</tr>
<tr>
<td>FY19</td>
<td>3</td>
<td>100%</td>
</tr>
<tr>
<td>FY20</td>
<td>3</td>
<td>100%</td>
</tr>
<tr>
<td>FY21</td>
<td>3</td>
<td>100%</td>
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</tbody>
</table>
Assistant Professor Contracts – Arts

% of Assistant Professors who do not have research contracts

<table>
<thead>
<tr>
<th>Year</th>
<th>Contracts</th>
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<td>FY20</td>
<td>16</td>
<td>100%</td>
</tr>
<tr>
<td>FY21</td>
<td>16</td>
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</table>
Assistant Professor Contracts – HRM

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<td>4</td>
<td>1</td>
</tr>
<tr>
<td>FY21</td>
<td>7</td>
<td>1</td>
</tr>
</tbody>
</table>

% of Assistant Professors who do not have research contracts

- FY17: 43%
- FY18: 80%
- FY19: 80%
- FY20: 80%
- FY21: 88%
Assistant Professor Contracts – Architecture

% of Assistant Professors who do not have research contracts

<table>
<thead>
<tr>
<th>Year</th>
<th>Contracts</th>
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</tr>
</thead>
<tbody>
<tr>
<td>FY17</td>
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<td>83%</td>
</tr>
<tr>
<td>FY18</td>
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<tr>
<td>FY19</td>
<td>4</td>
<td>100%</td>
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<tr>
<td>FY20</td>
<td>4</td>
<td>100%</td>
</tr>
<tr>
<td>FY21</td>
<td>4</td>
<td>100%</td>
</tr>
</tbody>
</table>

UNIVERSITY OF HOUSTON
DIVISION OF RESEARCH
Assistant Professor Contracts – Nursing

% of Assistant Professors who do not have research contracts

- **FY17**: 1 contract, 1 no contract (50% contracts)
- **FY18**: 1 contract, 1 no contract (50% contracts)
- **FY19**: 2 contracts, 1 no contract (67% contracts)
- **FY20**: 2 contracts, 1 no contract (67% contracts)
- **FY21**: 3 contracts, 1 no contract (25% contracts)
FY21
Technology Transfer Activity
Licensing Income

<table>
<thead>
<tr>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
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<th>FY21</th>
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<tr>
<td>$12.5</td>
<td>$16.6</td>
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<td>$22.0</td>
<td>$28.3</td>
<td>$33.8</td>
<td>$43.0</td>
<td>$65.7</td>
<td>$59.0</td>
<td>$65.6</td>
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</table>
TO SERVE
the research community, grad students, keeping us compliant, satisfying client requirements, protecting our intellectual and financial interests

TO LEAD
managing the conversations, institutional research priorities, leading the implementation, supporting the broader view of individual and small-group research
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