



WHAT IS A GREAT PUBLIC RESEARCH UNIVERSITY?

The UTSA Journey

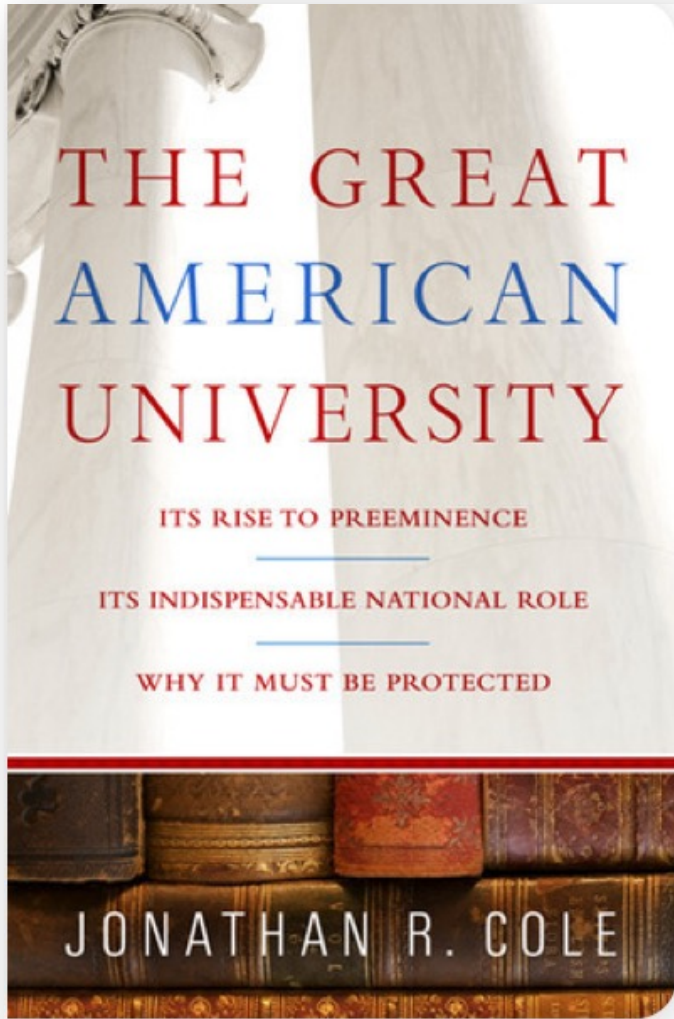
JoAnn Browning, Interim Vice President for Research

Heather Shipley, Interim Provost and Senior Vice President for Academic Affairs

Steve Wilkerson, Associate Vice Provost for Institutional Research and Analysis

Taylor Eighmy, President

August 16, 2023



Academy Meetings

The Great American University

Jonathan R. Cole

1956th Stated Meeting, held in collaboration with Boston University on September 16, 2010, at Boston University



Jonathan R. Cole

Jonathan R. Cole is the John Mitchell Mason Professor of the University at Columbia University and was Provost and Dean of Faculties from 1989 to 2002. He has been a Fellow of the American Academy since 1992.

Presentation

When most educated Americans think about our great universities, they probably don't think about the origins of lasers, FM radio, magnetic resonance imaging, global positioning systems, barcodes, the Google algorithm, the fetal monitor, the nicotine patch, antibiotics, the Richter scale, buckyballs and nanotechnology, the discovery of the insulin gene, the invention of the computer, or the development of bioengineering through the discovery of recombinant DNA. Nor do they think about improved weather forecasting, cures for childhood leukemia, the pap smear, scientific agriculture, surveying and measuring public opinion, or the

concepts of congestion pricing, human capital, and the self-fulfilling prophecy. They almost certainly don't think about the electric toothbrush, Gatorade, the Heimlich maneuver, or Viagra. Yet all these discoveries and innovations have their origins at American research universities.

Most people think of universities in terms of undergraduate and professional education – of teaching and the transmission of knowledge – rather than in terms of the creation of knowledge. This point of view is understandable: Americans are concerned about the education of their children and grandchildren, and they base their understanding of universities on their own experiences in education. Certainly, teaching undergraduate and graduate students is critically important and an integral part of the university's mission. But what has made our universities the greatest in the world is not the quality of our undergraduate education – as important as that is – but our ability to fulfill one of the other central missions of leading universities: the production of new knowledge through the discoveries that change our lives and the world.

In *The Great American University*, I tell the story of how American universities became the greatest engines of innovation and discovery the world has perhaps ever known, how that success was achieved in a relatively short period of time, and how our universities are under threat today. On what evidence do I base the claim that our universities are the best in the world? During the past century, the United States has produced an abundance of creative scientists – more than any other nation.

In numerous surveys and rankings, 80 percent of the top 20 universities in the world are in the United States; American universities make up 75 percent of the top 50 and roughly 60 percent of the top 100. Econo-

mist Henry Rosovsky approximated these basic ratios years ago, and the numbers still hold today. There is not one German university in the top 50, nor one Russian university in the top 75 (unless they do their own rankings). By China's own accounting, there are no Chinese universities in the top 200. Furthermore, 60 percent of all Nobel Prize winners in science since World War II have been Americans or foreign nationals working at American universities. The most widely cited scientific literature is dominated by American scientists and scholars. Indeed, American universities have become the envy

What has made our universities the greatest in the world is not the quality of our undergraduate education but the production of new knowledge through the discoveries that change our lives and the world.

of the world. Because many of the brightest and most able young people throughout the world want to attend and work at them, our universities may collectively represent the only American industry that currently has a favorable balance of trade.

Contrary to what most people think, the American research university is amazingly young, and it is highly embedded in the dynamics of the larger American society. It did not originate in 1636, when Harvard University opened its doors, or with the founding of Yale University or Columbia University, though we tend to think of these institutions as old, great universities. In reality, the American research university dates to one hundred years after the signing of the Declaration of Independence, when Johns

Bulletin of the American Academy, Spring 2011 27

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“But what has made our universities the greatest in the world is not the quality of our undergraduate education— as important as that is— but our ability to fulfill one of the central missions of leading universities: the production of new knowledge through discoveries that change our lives and the world.”



DESIGNATIONS OF EXCELLENCE

1 of 5
institutions
with all **4**



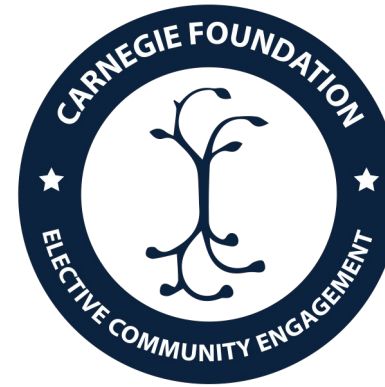
Tier One Research Classification

Recognizes UTSA as
one of USA's top 4%
research institutions



Excelencia in Education Seal of Excelencia

Recognizes UTSA's
leadership in
advancing Latino
student success



Community Engagement Classification

Highlights UTSA's
commitment to serving
the San Antonio region

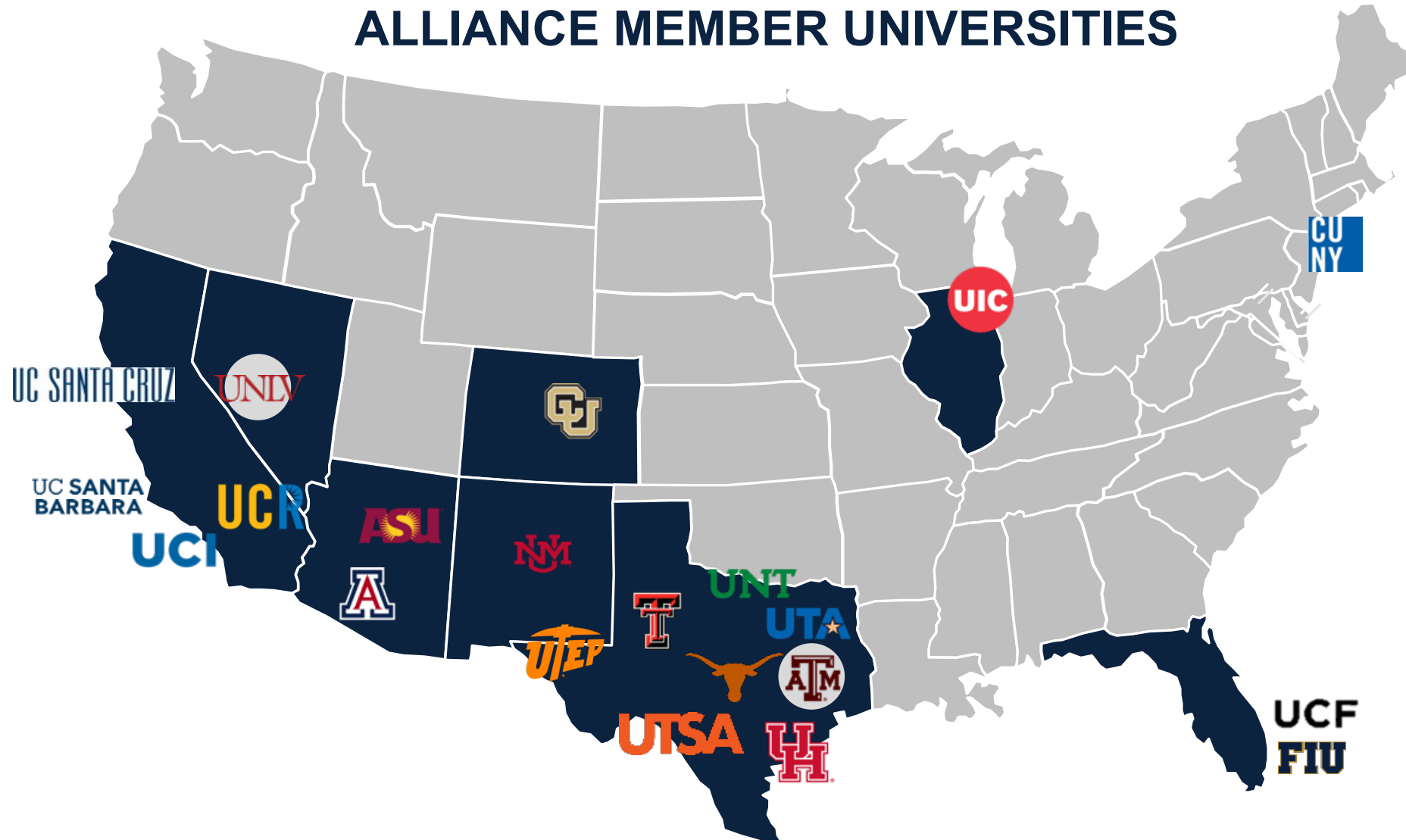


Innovation & Economic Prosperity University

Recognizes UTSA's
leadership in fostering
economic growth,
prosperity and innovation.

HISPANIC SERVING & CARNEGIE R1

ALLIANCE MEMBER UNIVERSITIES



ECONOMIC & COMMUNITY IMPACT

Economic Contributions of The University of Texas at San Antonio
Fiscal Year 2021

December 2022
 Prepared by:

The University of Texas at San Antonio
UTSA Center for Community & Business Research
 Institute for Economic Development

\$2.5 Billion
 Direct Economic Impact FY 2021
 (Total revenues or output)

\$1.3 Billion Gross Regional Product	17,620 Jobs Supported in the Area
\$814.3 Million Salaries and Wages to Workers	\$33.2 Million State Government Revenues
\$33.7 Million Local Government Revenues	

7 NATIONAL ACADEMY MEMBERS



AMERICAN ACADEMY
OF ARTS & SCIENCES



Rena
Bizios



Sergio
Alcocer



Randall
Poston



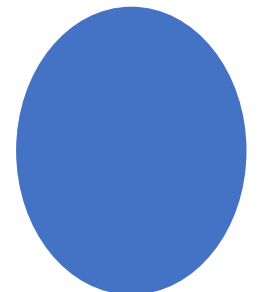
Michael
Yaszemski



Rena
Bizios



Rena
Bizios



Coming
2023

6

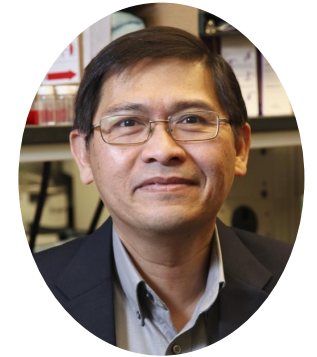
NATIONAL ACADEMY OF INVENTORS



Taylor
Eighmy



Ravi
Sandhu



Anson
Ong



Rena
Bizios



David
Akopian



Michael
Yaszemski



Taylor
Eighmy



Audrey
Lamb



Rena
Bizios



A.T.
Chronopoulos



Aimin
Liu



Angela
Speck



Ravi
Sandhu



James
Chambers



Banglin
Chen



Howard
Grimes



George
Perry



CAREER AWARDS

2023



David Restrepo



Chris Combs



Itamar Lerner

2022



Chris Rathbone



Anthony Rios

2021



Gabriela Romero Uribe



Amir Jafari

2020



Murtuza Jadhwal

2019



Alexis Godet



Niko Gatsis



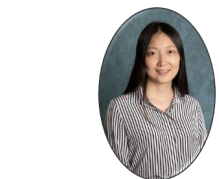
Teja Guda



Xiaoyin Wang



Bing Dong



Yanmin (Emily) Gong



Wei Gao



Ahmad Taha

Various Measures For Research Quality

NSF HERD

National Center for Science and Engineering Statistics
Measuring Research and Development at Colleges and Universities in the United States

The Higher Education Research and Development Survey
Higher education institutions in the United States serve as a key component to the U.S. R&D system, helping drive innovation, as well as scientific and technological breakthroughs. R&D activity and funding can demonstrate the United States' investment in expanding knowledge and economic growth.

What is the HERD Survey?
The Higher Education Research and Development (HERD) Survey collects information from U.S. colleges and universities that have spent at least \$50,000 for R&D that has been separately accounted for in the past fiscal year. It is conducted by the National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation.

How can I use the HERD Survey?
Data from the HERD Survey can answer questions like:

- Which R&D fields have the highest expenditures?
- Which federal agencies fund R&D at higher education institutions?
- Where has there been the most growth in R&D?
- Which R&D fields have the highest expenditures?
- How much did minority-serving institutions spend on R&D?

Why is the HERD Survey important?
The HERD Survey is the primary source of information on R&D expenditures within higher education institutions in the United States, and it collects information from over 900 institutions annually. For more information, the HERD Survey homepage (<https://nces.ed.gov/statistics/ipeds/erd/>) features additional details about the survey, its questionnaires, and links to related publications and products.

National Center for Science and Engineering Statistics (NCSES)
Measuring America's Progress in Science, Technology, and Innovation
NCSES 22-207

CARNEGIE R1

Carnegie Classification of Institutions of Higher Education
CARNEGIE CLASSIFICATION OF INSTITUTIONS OF HIGHER EDUCATION

The Carnegie Classification of Institutions of Higher Education is the nation's leading framework for categorizing over 3,900 U.S. higher education institutions.

3939 Institutions

Classification Lookup
Try a Custom Search

About the Carnegie Classification
The Carnegie Classification® is the leading framework for recognizing and describing institutional diversity in U.S. higher education. In 1970, the Carnegie Commission on Higher Education began developing a classification of colleges and universities to support its program of research and policy analysis. The framework was first published in 1973 and is now updated every 3 years to reflect changes among colleges and universities.

246 Institutions are classified as Special Focus Four-Year, Faith-Related institutions

352 Institutions hold the Community Engagement Classification

195 Small, highly residential institutions primarily offer baccalaureate arts & science degrees

Elective Classifications
The Carnegie Elective Classifications are recognitions earned by institutions that have made extraordinary commitments to their public purpose. Institutions apply for recognition from the Carnegie Foundation through a particular Elective Classification theme and make extraordinary commitments to that theme. There are currently 2 Elective Classifications for which institutions can apply: the Elective Classification for Community Engagement and the Elective Classification for Leadership for Public Purpose.

Community Engagement Application
View application resources and requirements.

CMUP

The Top American Research Universities
2020 Annual Report

The Center for Measuring University Performance

John V. Lombardi
Crazy W. Abbey
Diane D. Craig
Lynne N. Colle

AAU

Association of American Universities
Membership Policy

AAU Membership Policy
The Association of American Universities (the "Association") is an association of leading comprehensive research universities distinguished by the breadth and quality of their programs of all academic research and scholarship and by graduate education. Membership in the association is by invitation. The Association maintains a standing Membership Committee, which periodically evaluates both non-member universities for possible membership and current members for continued membership, with the goal of ensuring that the Association in fact comprises comparable leading research-intensive universities. Non-member universities whose research and education profile exceeds that of a number of current members may be invited to join the Association; current members whose research and education profile falls significantly below that of other current members or below the criteria for admission of new members will be subject to further review and possible discontinuation of membership.

While the association does not have a specific limit on the number of its members, it values remaining a relatively small organization whose composition enables productive meetings and collegial relationships among the member universities and associations. It endeavors to balance these characteristics of the association with the expectation that its membership will include the leading research-intensive universities.

In its evaluation of institutions, the Membership Committee is guided by a set of Membership Principles and Membership Indicators. The Membership Principles specify the primary purpose of the association and the corresponding characteristics of its member institutions. The Membership Indicators are a two-phase set of quantitative measures used to assess the breadth and quality of university programs of research and graduate education at U.S.-based institutions.

Adopted January 12, 1999
Revised April 20, 2005
Revised April 22, 2013

AAU Membership Principles

- The primary purpose of AAU should be to provide a forum for the development and implementation of institutional and national policies promoting strong programs of academic research and scholarship and graduate education.
- The members of AAU should be comprehensive universities distinguished by the disciplinary breadth and quality of their programs of graduate education and research.
- The members of AAU shall optimize appropriate criteria for assessing the breadth and quality of their programs and shall apply these criteria in making judgments about potential new members of the Association and in the assessment of current members.
- All current members are subject to ongoing assessment by the Membership Committee. In those instances in which there appears to be a significant and sustained disparity between the mission or accomplishments of a member institution and that of other members of the association, the Membership Committee will make the appropriate recommendations to the Board about continued membership.

Adopted January 12, 1999
Revised April 20, 2005
Revised April 22, 2013

AAU Membership Indicators
The AAU presidents and chancellors have adopted the following set of membership indicators to use in assessments of the U.S. current and potential new members. All indicators will be tabulated as both actual values and normalized, per-faculty measures where possible.

NSF HERD

METRICS:

- Total Research Expenditures
- Federal Research Expenditures
- By Major Agency (NSF, NIH, DOD, DOE, etc.)
- State and Local Expenditures
- Institutional Expenditures
- Business Expenditures
- Non-Profit Expenditures
- All Other Sources

National Center for Science and Engineering Statistics

Measuring Research and Development at Colleges and Universities in the United States



The Higher Education Research and Development Survey

Higher education institutions in the United States serve as a key component to the U.S. R&D system, helping drive innovation, as well as scientific and technological breakthroughs. R&D activity and funding can demonstrate the United States' investment in expanding knowledge and economic growth.

What is the HERD Survey?

The Higher Education Research and Development (HERD) Survey collects information from U.S. colleges and universities that have spent at least \$150,000 for R&D that has been separately accounted for in the past fiscal year. It is conducted by the National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation.

How can I use the HERD Survey?

Data from the HERD Survey can answer questions like

- Who funds university R&D?
- Which federal agencies fund R&D at higher education institutions?
- Where has there been the most growth in R&D?
- Which R&D fields have the highest expenditures?
- How much did minority-serving institutions spend on R&D?

Why is the HERD Survey important?

The HERD Survey is the primary source of information on R&D expenditures within higher education institutions in the United States, and it collects information from over 900 institutions annually.

For more information, the [HERD Survey homepage \(https://nsf.gov/statistics/srvyherd\)](https://nsf.gov/statistics/srvyherd) features additional details about the survey, its questionnaires, and links to related publications and products.



National Center for Science and Engineering Statistics (NCSES)
Measuring America's Progress in Science, Technology, and Innovation

NCSES 22-217

CARNEGIE R1

METRICS:

- Total Research Expenditures
- STEM Research Expenditures
 - By Major Agency (NSF, NIH, DOD, DOE, etc.)
- Non-STEM Expenditures
- Research Staff (Post-docs)
- Number of Faculty
- Total PhDs
- STEM PhDs
- Humanities PhDs
- Social Sciences PhDs
- Other PhDs

CARNEGIE CLASSIFICATION OF INSTITUTIONS OF HIGHER EDUCATION

3939 Institutions

The Carnegie Classification of Institutions of Higher Education is the nation's leading framework for categorizing diverse U.S. higher education institutions.

Classification Lookup

Search by: **Institution Name** **Classification**

Try a Custom Search >

Enter institution name

About the Carnegie Classification®

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[Learn more about the Carnegie Classification >](#)

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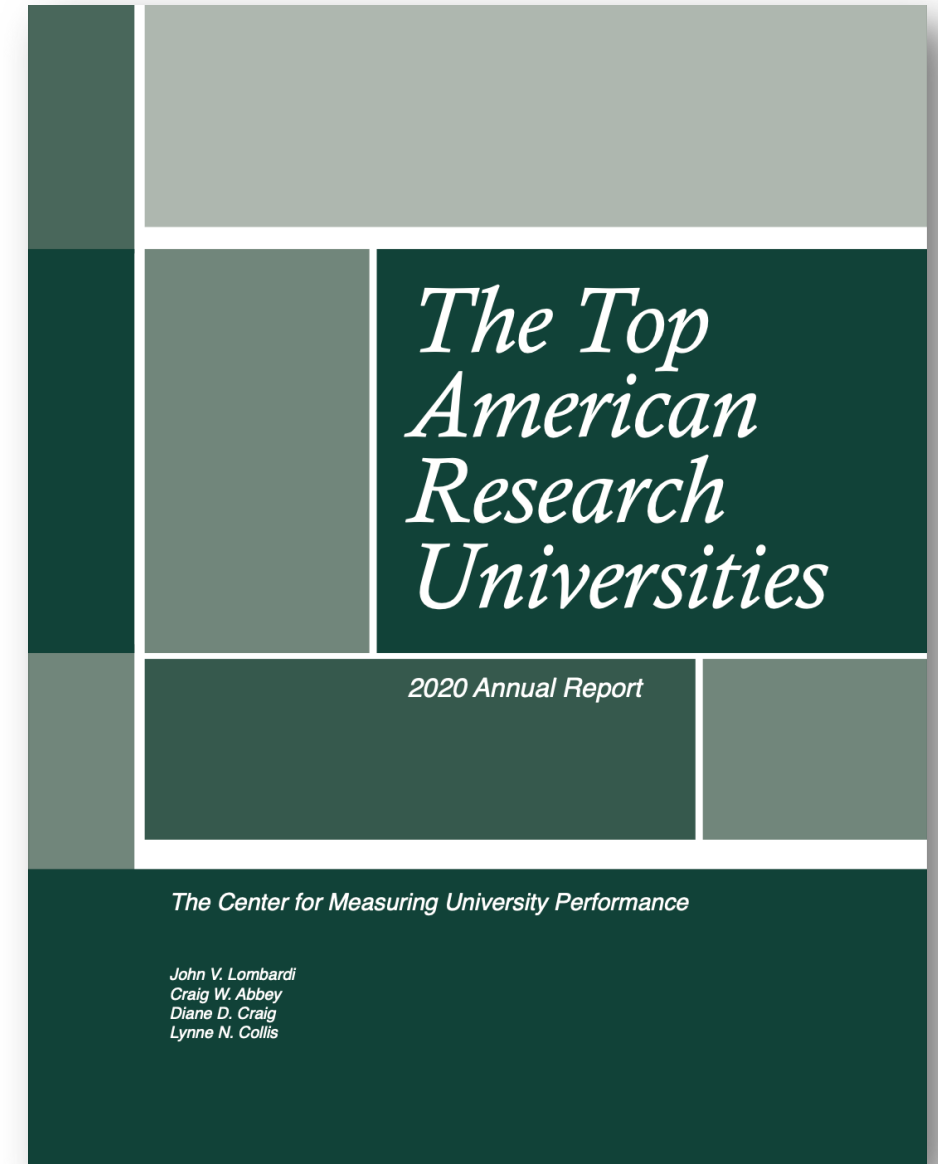
Community Engagement Application

View application resources and requirements.

CMUP

METRICS:

- Total Research Expenditures
- Federal Research Expenditures
 - By Major Agency (NSF, NIH, DOD, DOE, etc.)
- Research by Major Discipline
- Endowment Assets
- Annual Giving
- National Academy Memberships
- Faculty Awards
- Doctorates Awarded
- Postdoctoral Appointees
- SAT Scores
- National Merit Scholars



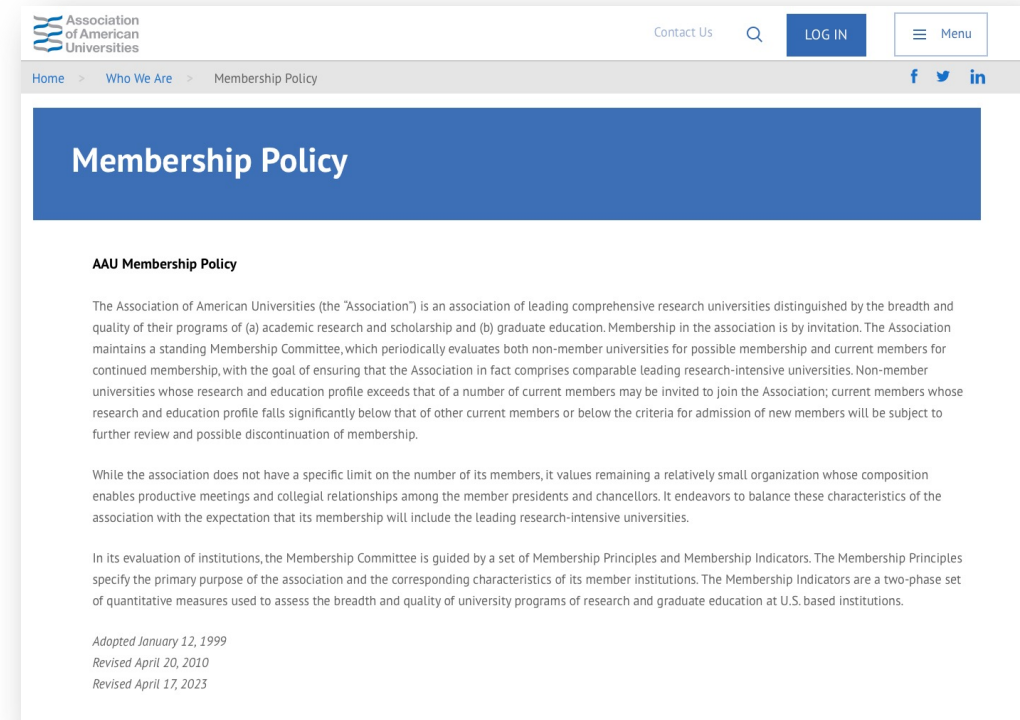
AAU

PHASE 1 METRICS:

- Federal Research Expenditures
 - By Major Agency (NSF, NIH, DOD, DOE, etc.)
- Faculty Awards, Fellowships, Memberships including National Academies
- Thomas Reuters InCites Citations
- Books (esp Arts, Humanities, Social Sciences)

PHASE 2 METRICS:

- USDA, State, Industrial Expenditures
- Doctorates graduated
- Postdoctoral Appointees



The screenshot shows the AAU Membership Policy page. The header includes the AAU logo, navigation links (Home, Who We Are, Membership Policy), and a search bar. The main content area is titled "Membership Policy" and contains the following text:

AAU Membership Policy

The Association of American Universities (the "Association") is an association of leading comprehensive research universities distinguished by the breadth and quality of their programs of (a) academic research and scholarship and (b) graduate education. Membership in the association is by invitation. The Association maintains a standing Membership Committee, which periodically evaluates both non-member universities for possible membership and current members for continued membership, with the goal of ensuring that the Association in fact comprises comparable leading research-intensive universities. Non-member universities whose research and education profile exceeds that of a number of current members may be invited to join the Association; current members whose research and education profile falls significantly below that of other current members or below the criteria for admission of new members will be subject to further review and possible discontinuation of membership.

While the association does not have a specific limit on the number of its members, it values remaining a relatively small organization whose composition enables productive meetings and collegial relationships among the member presidents and chancellors. It endeavors to balance these characteristics of the association with the expectation that its membership will include the leading research-intensive universities.

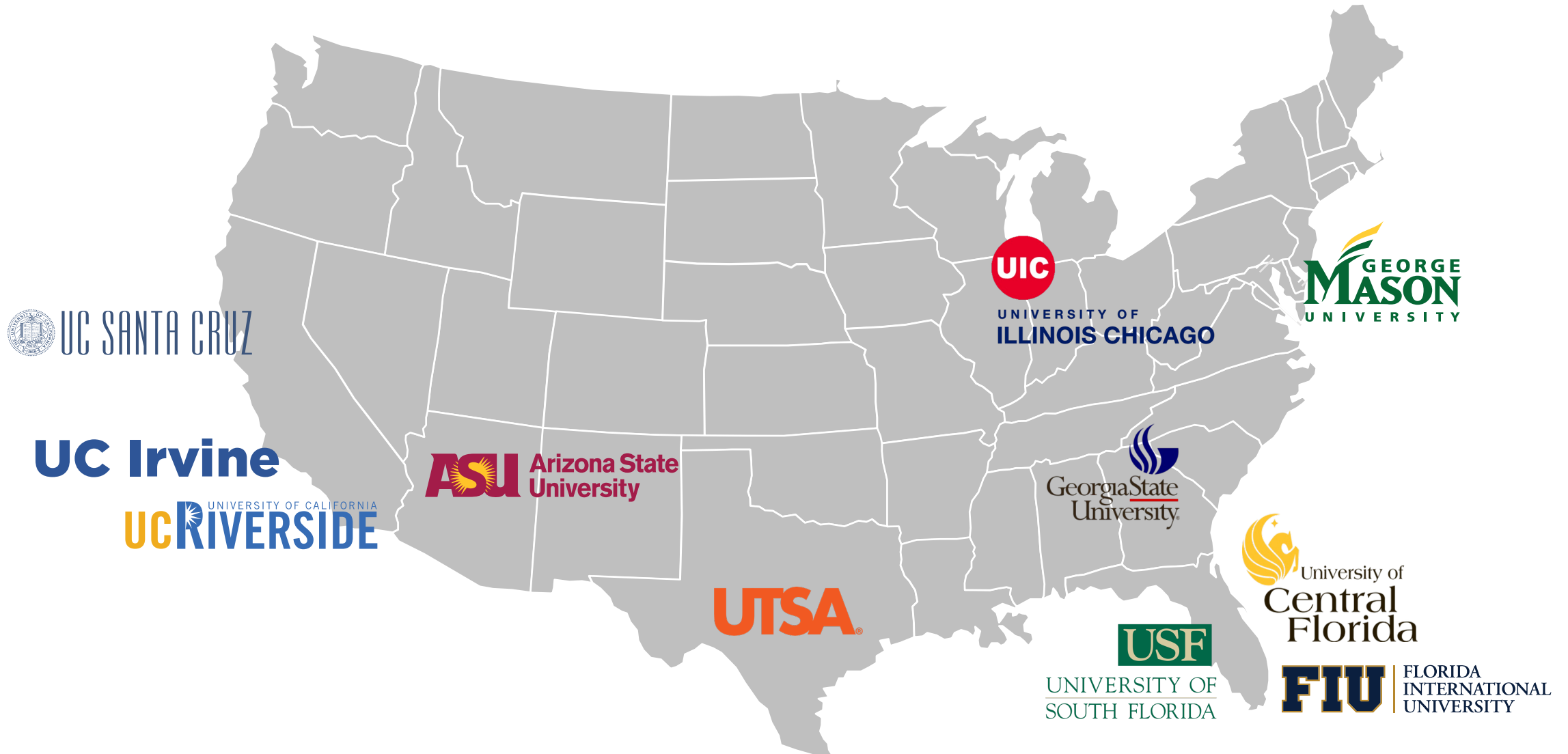
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*Adopted January 12, 1999
Revised April 20, 2010
Revised April 17, 2023*

OTHER CONSIDERATIONS:

- Pell
- Undergraduate Graduation Rates
- Pell Recipient Graduation Rates
- Graduation Rate Gap

NATIONAL ASPIRANTS



NATIONAL ASPIRANTS

Institution	Age	Total Enrollment	Grants a Medical Degree	Land Grant Institution	Carnegie Classification	Association of American Universities	Carnegie Community Engaged	APLU Innovation & Economic Prosperity	Seal of Excelencia	Athletic Conference <i>*not football</i>
Arizona State University	138	77,881	N	N	R1	Y	Y	Y	Y	Pacific-12
Florida International University	58	56,664	Y	N	R1	N	Y	Y	Y	Conference USA
George Mason University	74	38,628	N	N	R1	N	N	N	N	Atlantic 10 Conference*
Georgia State University	110	36,973	N	N	R1	N	N	N	N	Sunbelt
University of California, Irvine	59	36,505	Y	N	R1	Y	N	N	N	Big West Conference*
University of California, Santa Cruz	58	19,841	N	N	R1	Y	N	N	Y	Big West Conference*
University of California, Riverside	69	26,847	Y	N	R1	Y	N	N	Y	Big West Conference*
University of Central Florida	60	70,310	Y	N	R1	N	Y	Y	Y	Big 12
University of Illinois, Chicago	164	34,199	Y	N	R1	N	N	N	Y	Horizon League*
University of South Florida	67	49,708	Y	N	R1	Y	Y	Y	N	American Athletic Conference
University of Texas at San Antonio	54	34,734	N	N	R1	N	Y	Y	Y	American Athletic Conference

TEXAS PEER INSTITUTIONS



TEXAS PEERS

Institution	Age	Total Enrollment	Grants a Medical Degree	Land Grant Institution	Carnegie Classification	Association of American Universities	Carnegie Community Engaged	APLU Innovation & Economic Prosperity	Seal of Excelencia	Athletic Conference <i>*not football</i>
Texas A&M University	147	72,530	Y	Y	R1	Y	N	N	N	Southeastern Conference
Texas State University	124	37,864	N	N	R2	N	N	N	Y	Sun Belt Conference
Texas Tech University	100	40,542	N	N	R1	N	Y	Y	N	Big Twelve Conference
University of Houston	89	47,031	N	N	R1	N	Y	Y	N	Big Twelve Conference
University of North Texas	133	42,441	N	N	R1	N	N	N	N	American Athletic Conference
University of Texas at Arlington	128	45,949	N	N	R1	N	N	N	Y	Sun Belt Conference*
University of Texas at Austin	140	51,991	Y	N	R1	Y	Y	N	Y	Big Twelve Conference
University of Texas at Dallas	62	29,696	N	N	R1	N	N	Y	N	American Southwest Conference*
University of Texas at El Paso	109	24,003	N	N	R1	N	Y	Y	Y	Conference USA
University of Texas at San Antonio	54	34,734	N	N	R1	N	Y	Y	Y	American Athletic Conference

NSF HERD: SOME DATA

2022 Higher Education Research and Development (HERD) Report: 2021 Data

METRICS:

- Total Research Expenditures
- Federal Research Expenditures
- NSF Expenditures
- NIH Expenditures

National Center for Science and Engineering Statistics

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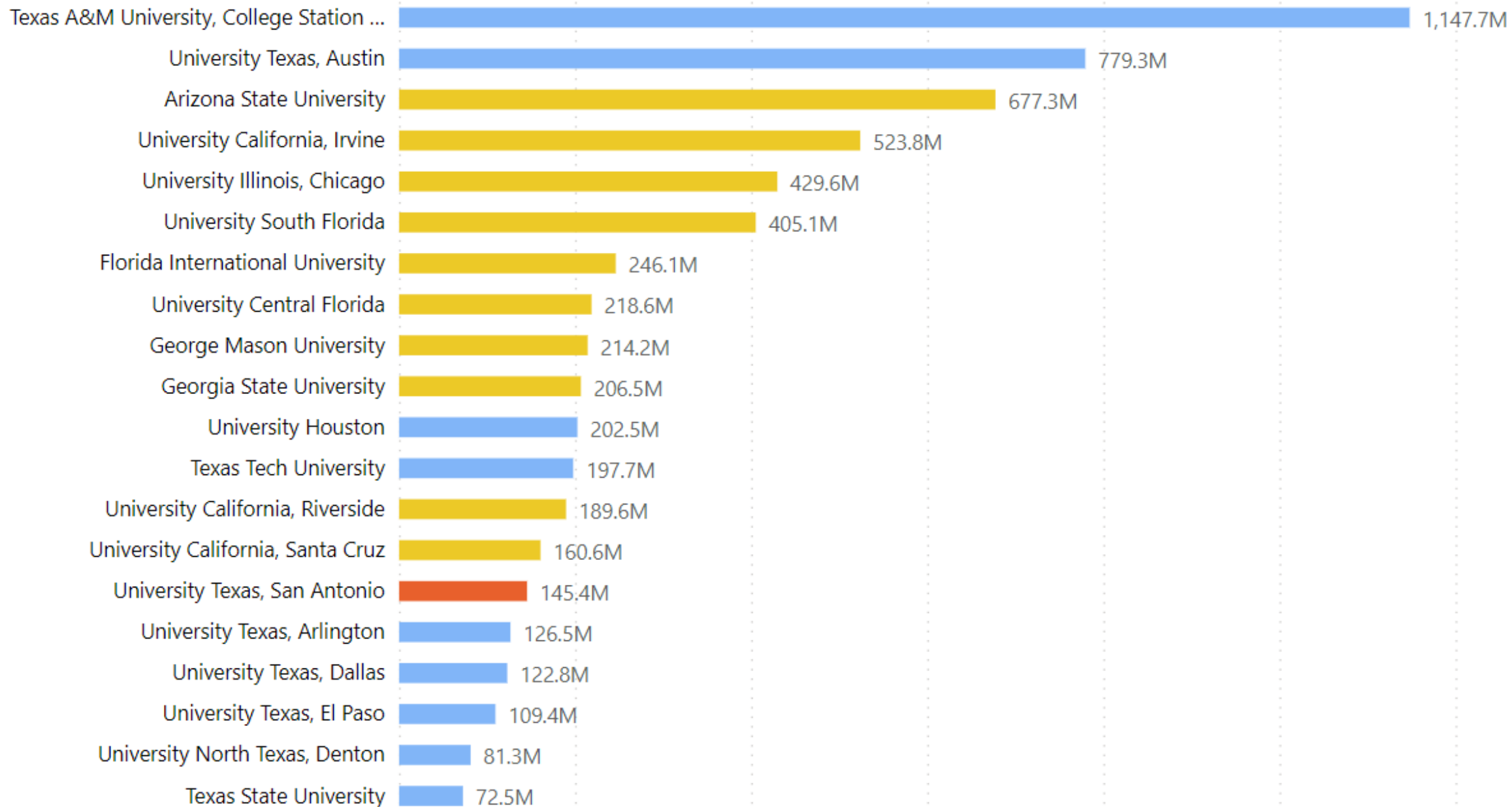
National Center for Science and Engineering Statistics (NCSES)
Measuring America's Progress in Science, Technology, and Innovation

NCSES 22-217

All R&D Expenditures

2021 Higher Education Research and Development (HERD)

● Peer Models of Excellence ● Texas Research University ● UTSA

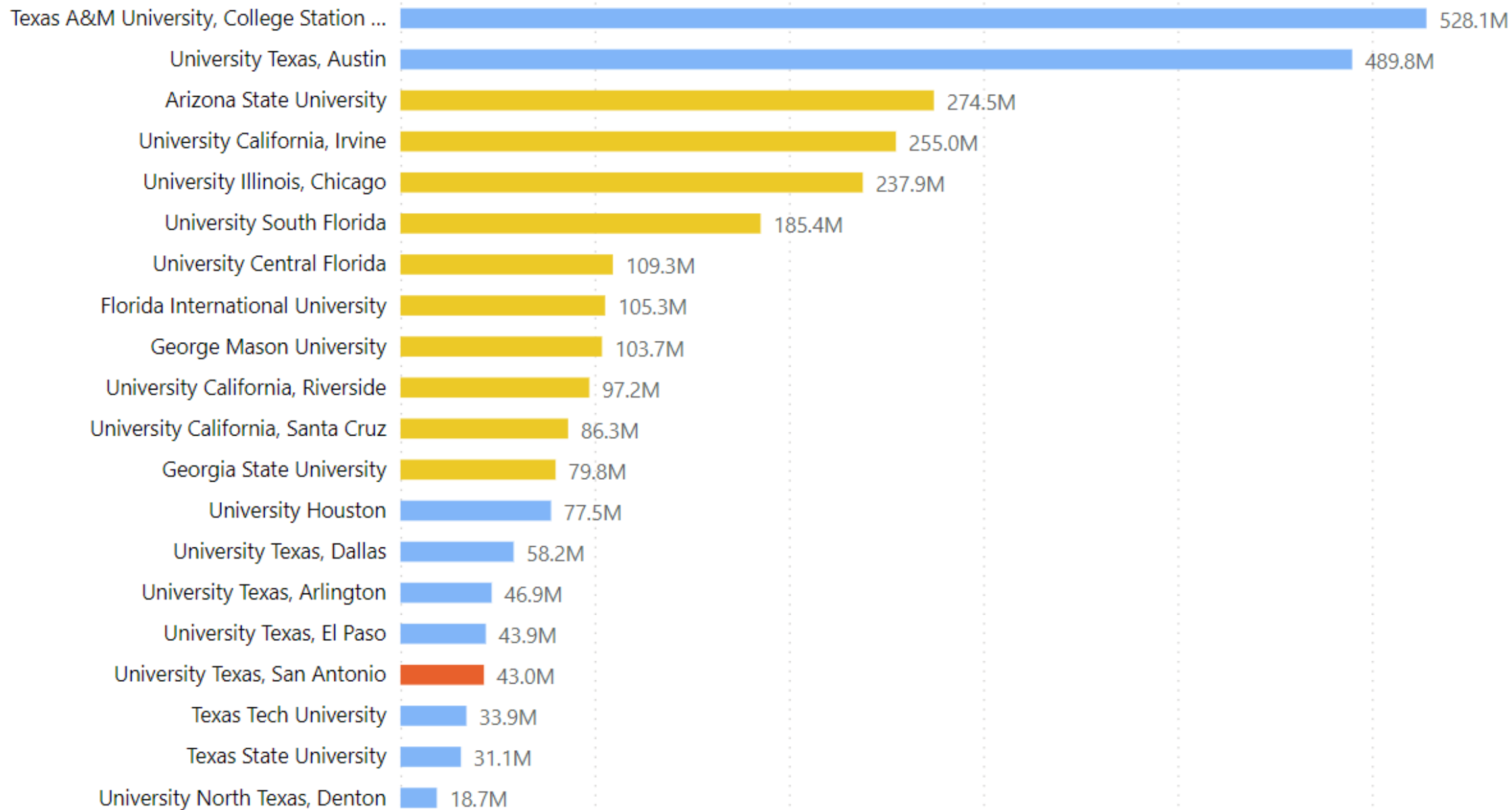


Federal Government Expenditures

2021 Higher Education Research and Development (HERD)



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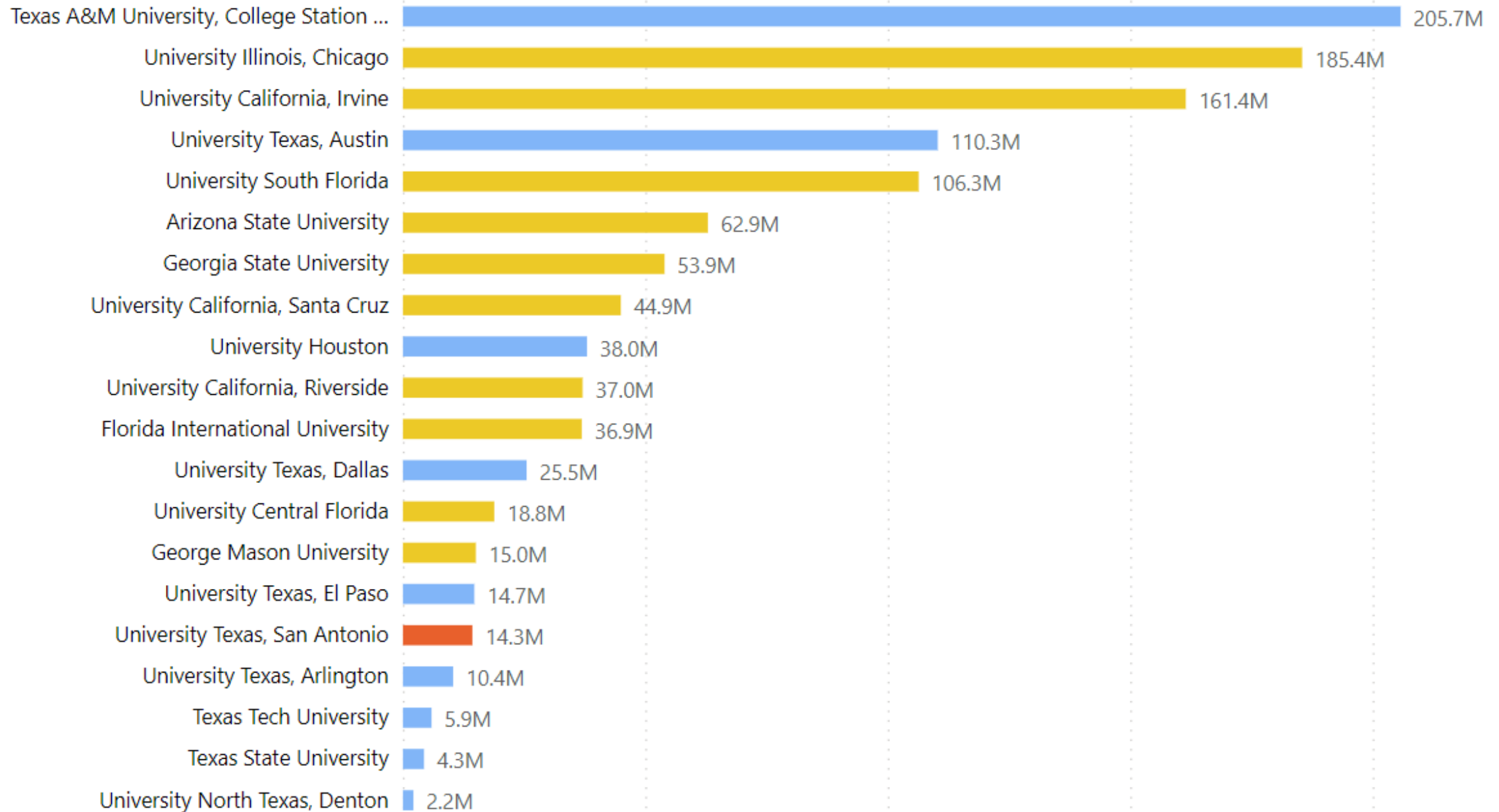


HHS Federally Financed Expenditures

2021 Higher Education Research and Development (HERD)



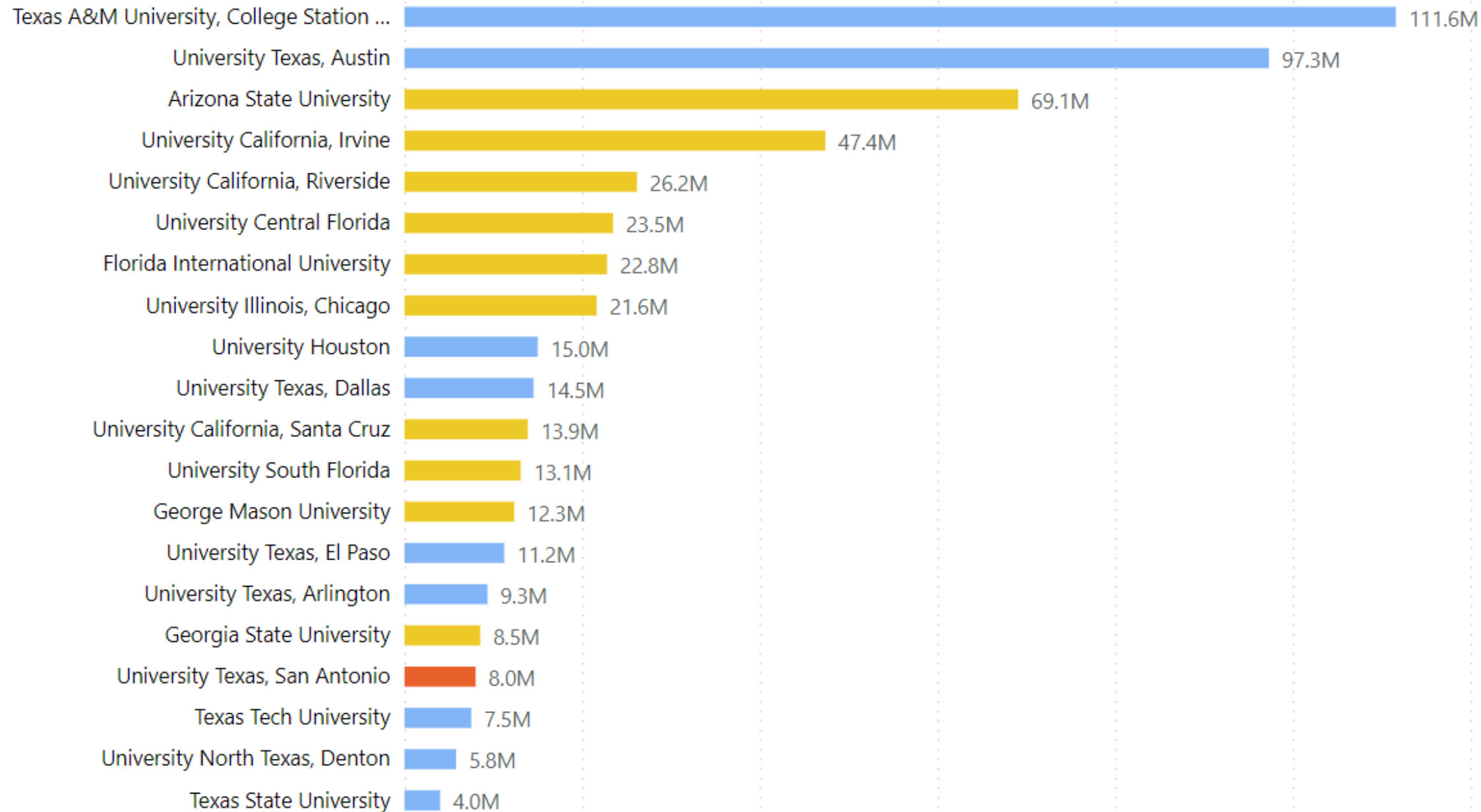
● Peer Models of Excellence ● Texas Research University ● UTSA



NSF Federally Financed Expenditures

2021 Higher Education Research and Development (HERD)

● Peer Models of Excellence ● Texas Research University ● UTSA



CARNEGIE R1

SOME DATA

2022 Report, Showing 2021 Data

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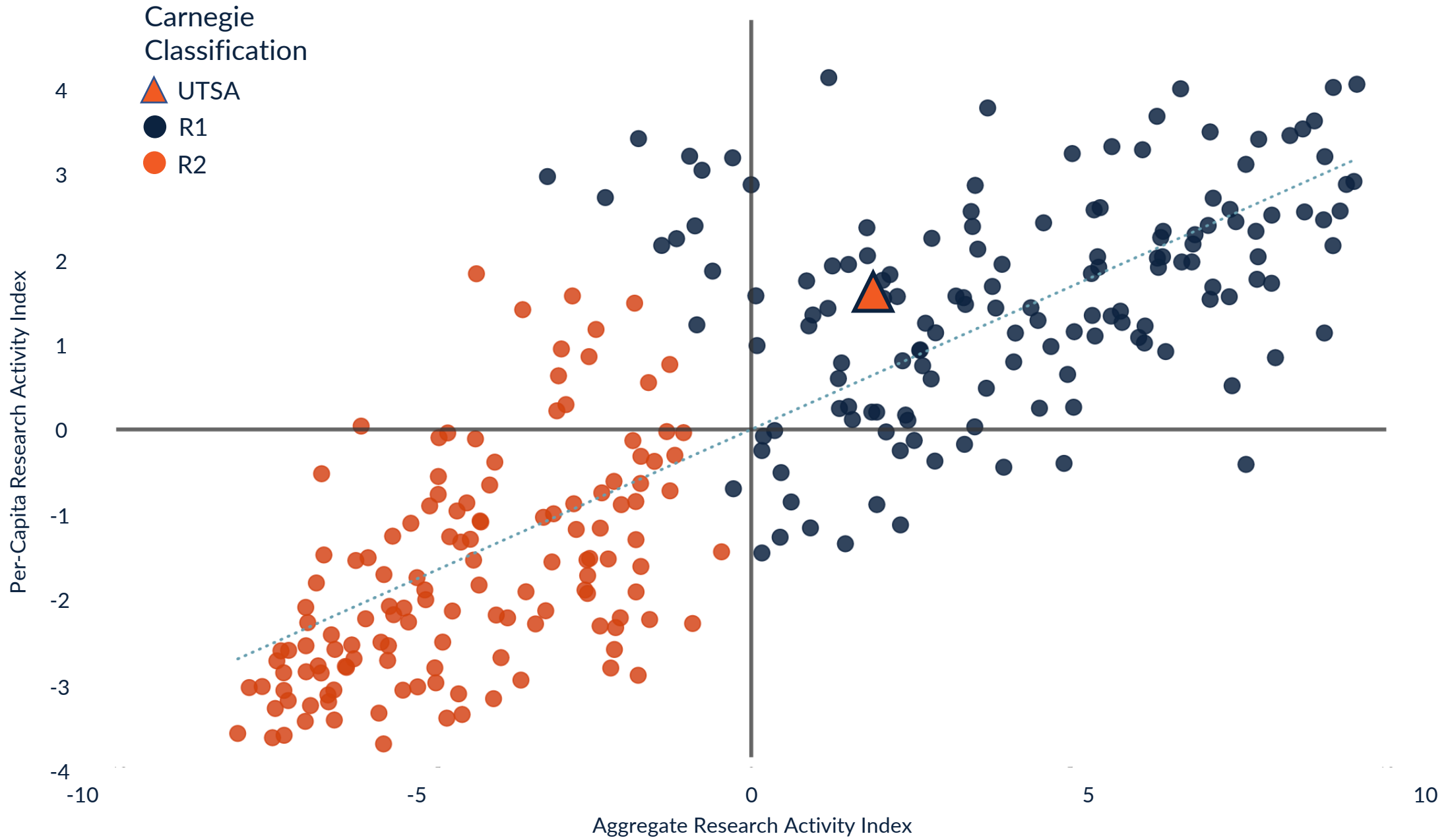
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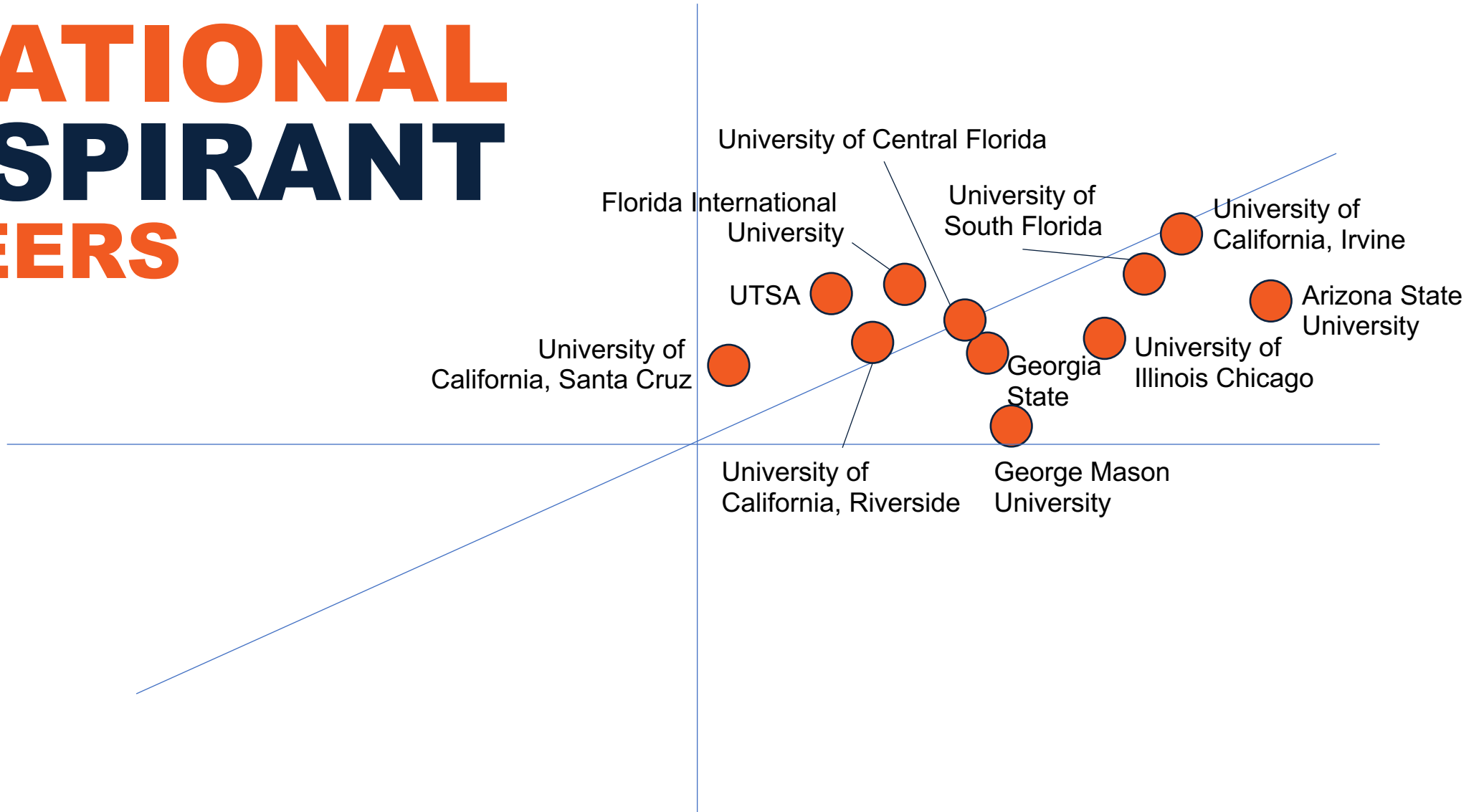
Community Engagement Application

View application resources and requirements.

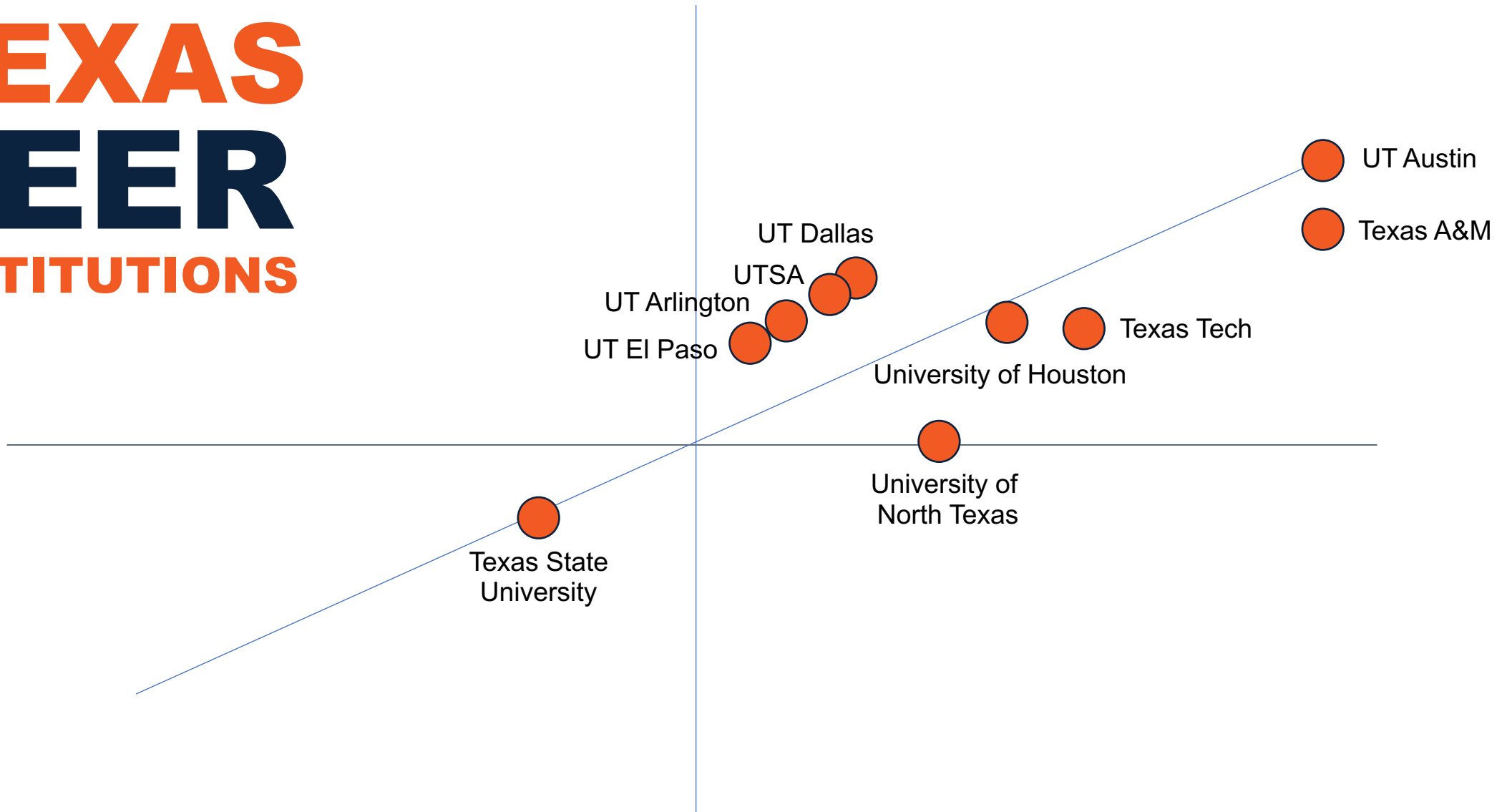
Carnegie R1 Classification



NATIONAL ASPIRANT PEERS



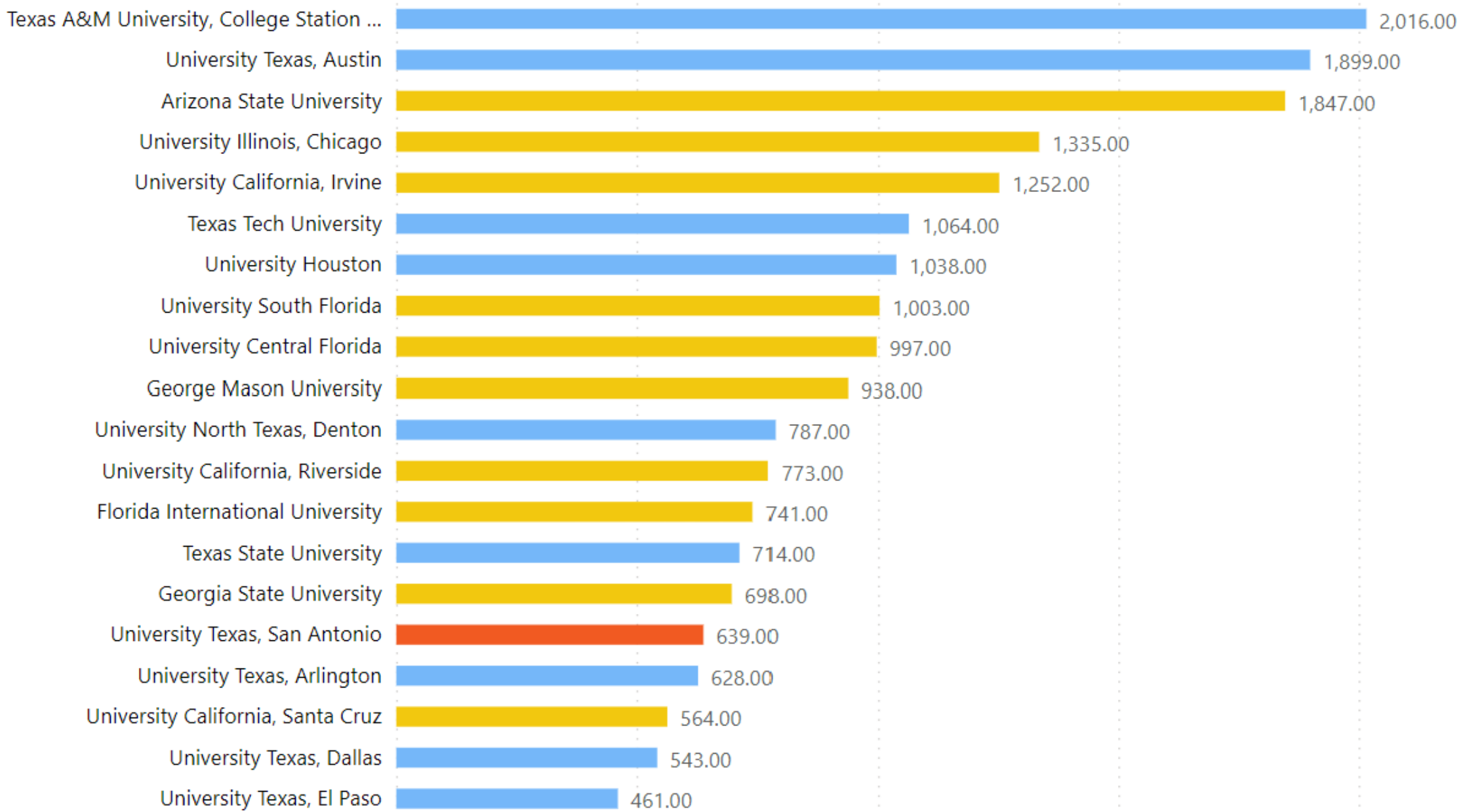
TEXAS PEER INSTITUTIONS



Tenured Tenure-Track Faculty Count

2020 IPEDS

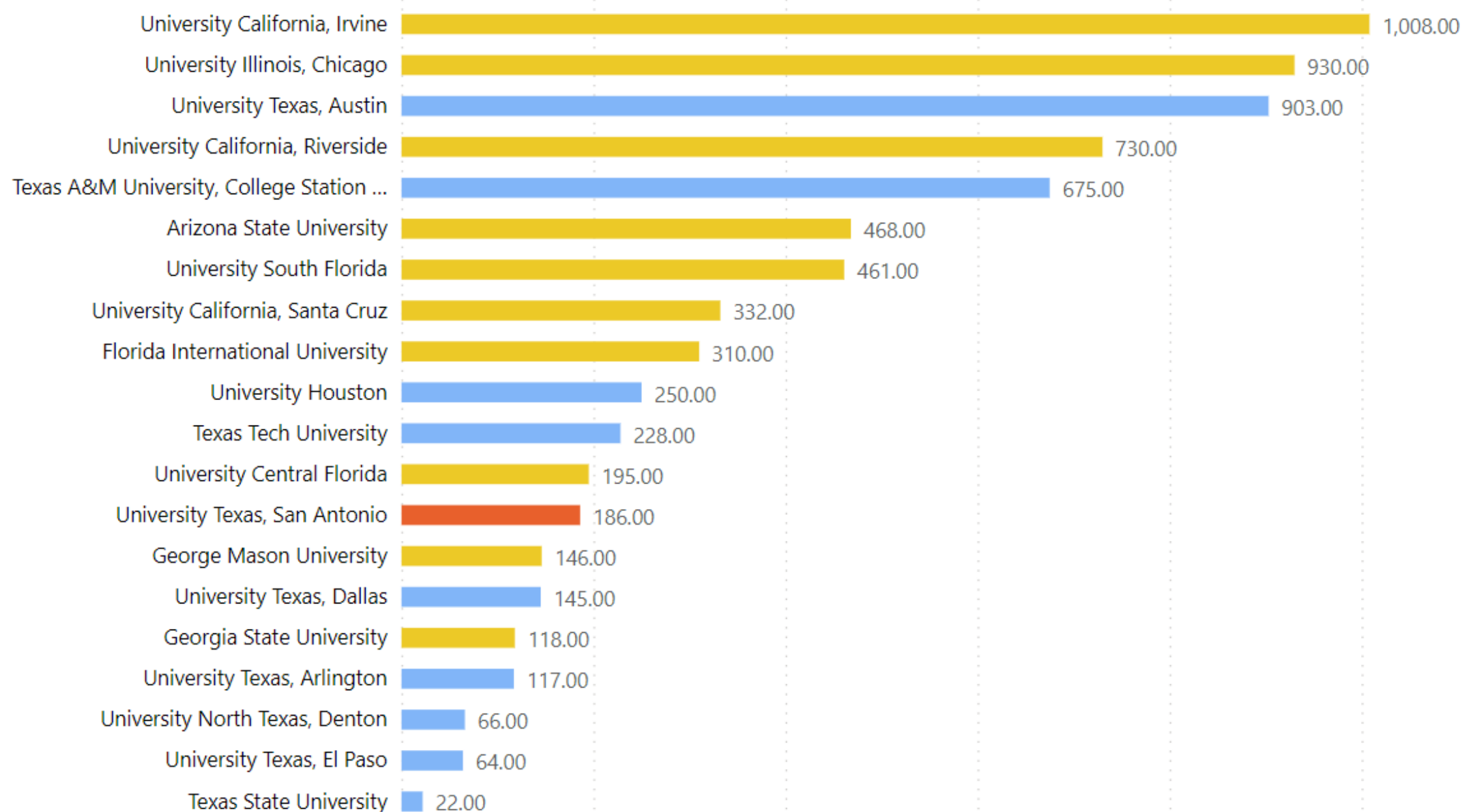
● Peer Models of Excellence ● Texas Research University ● UTSA



Research Staff

2020 IPEDS

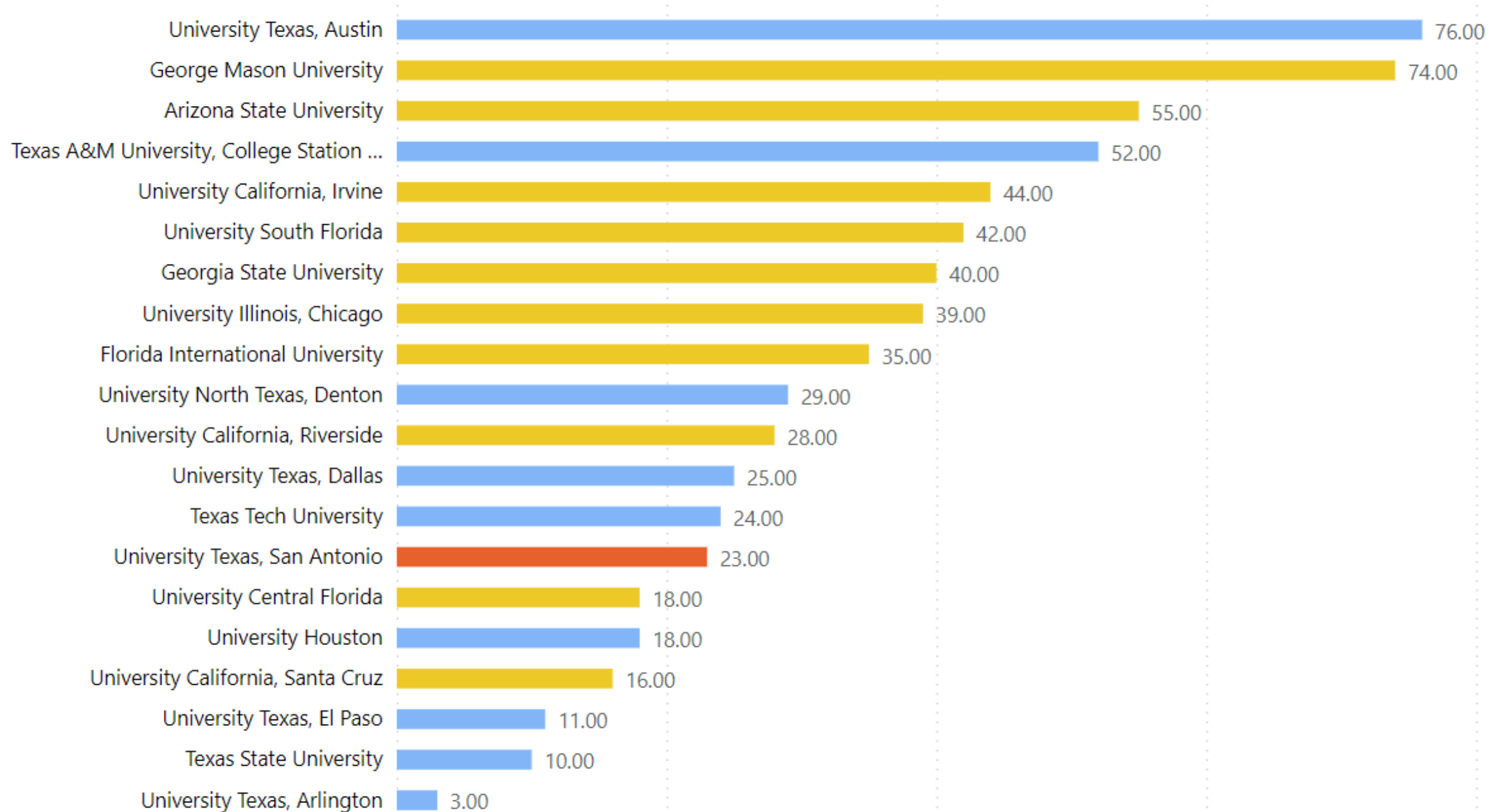
● Peer Models of Excellence ● Texas Research University ● UTSA



Humanities PhDs

2020 IPEDS

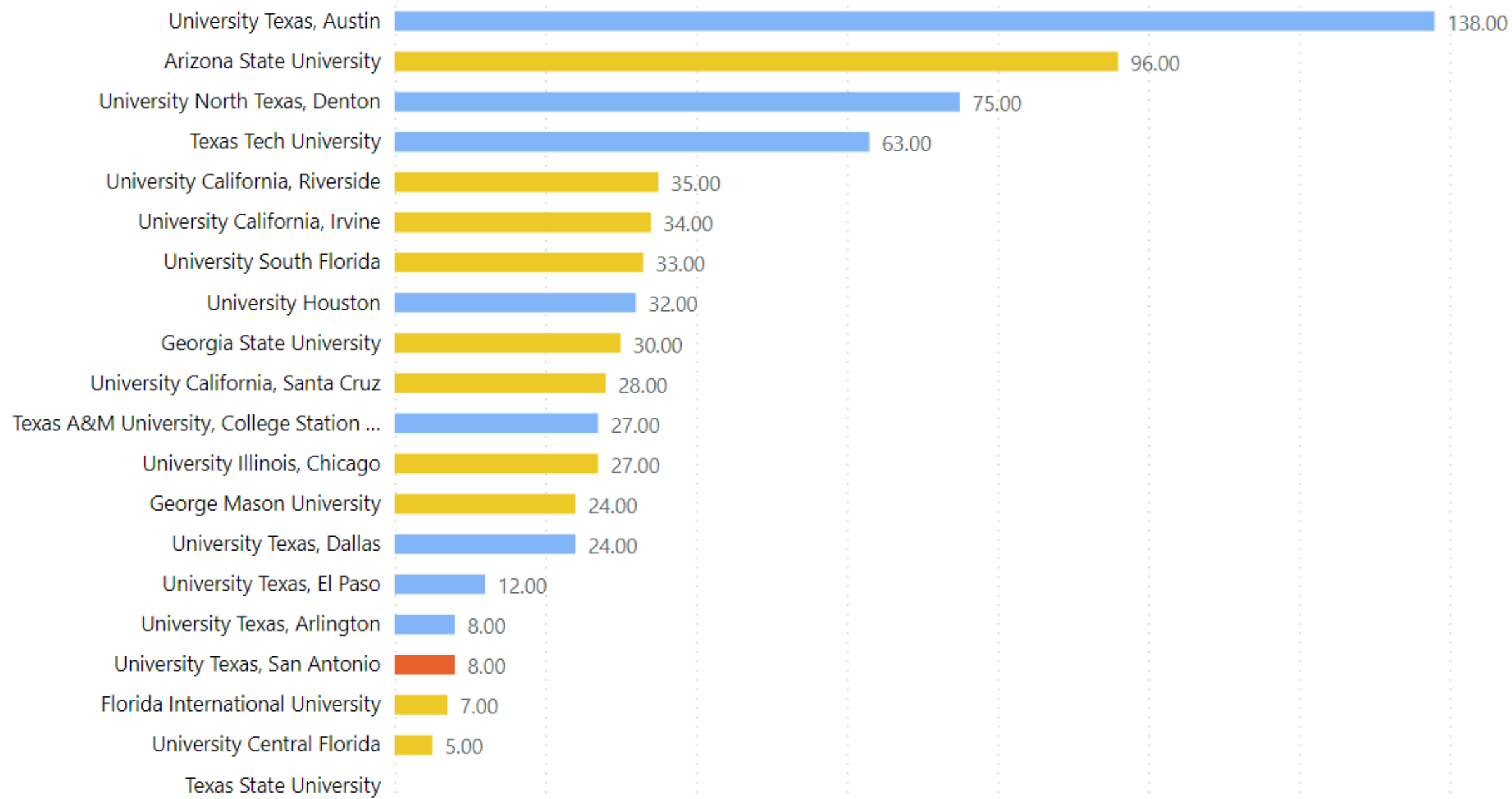
● Peer Models of Excellence ● Texas Research University ● UTSA



Social Science PhDs

2020 IPEDS

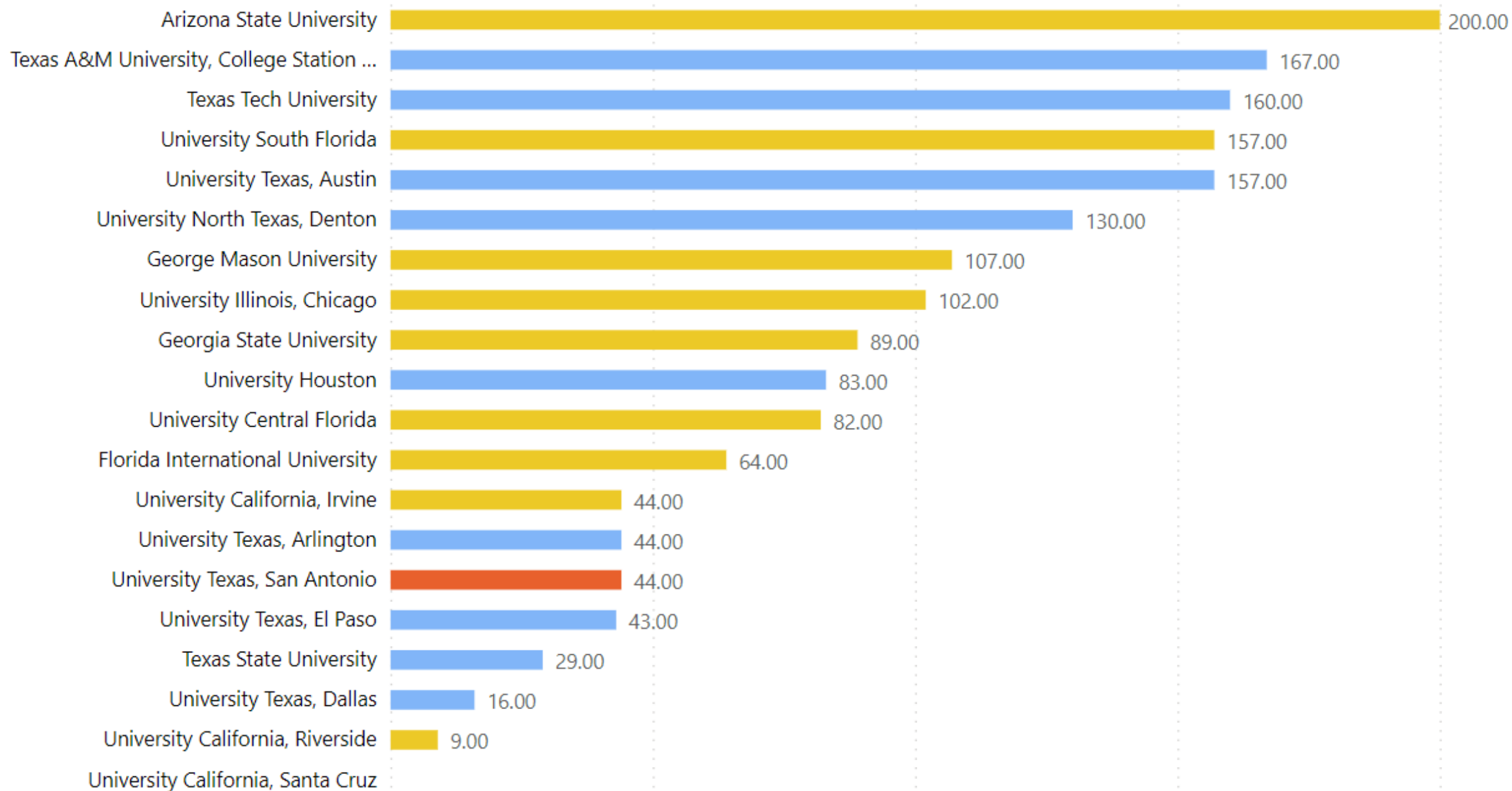
● Peer Models of Excellence ● Texas Research University ● UTSA



Other PhDs

2020 IPEDS

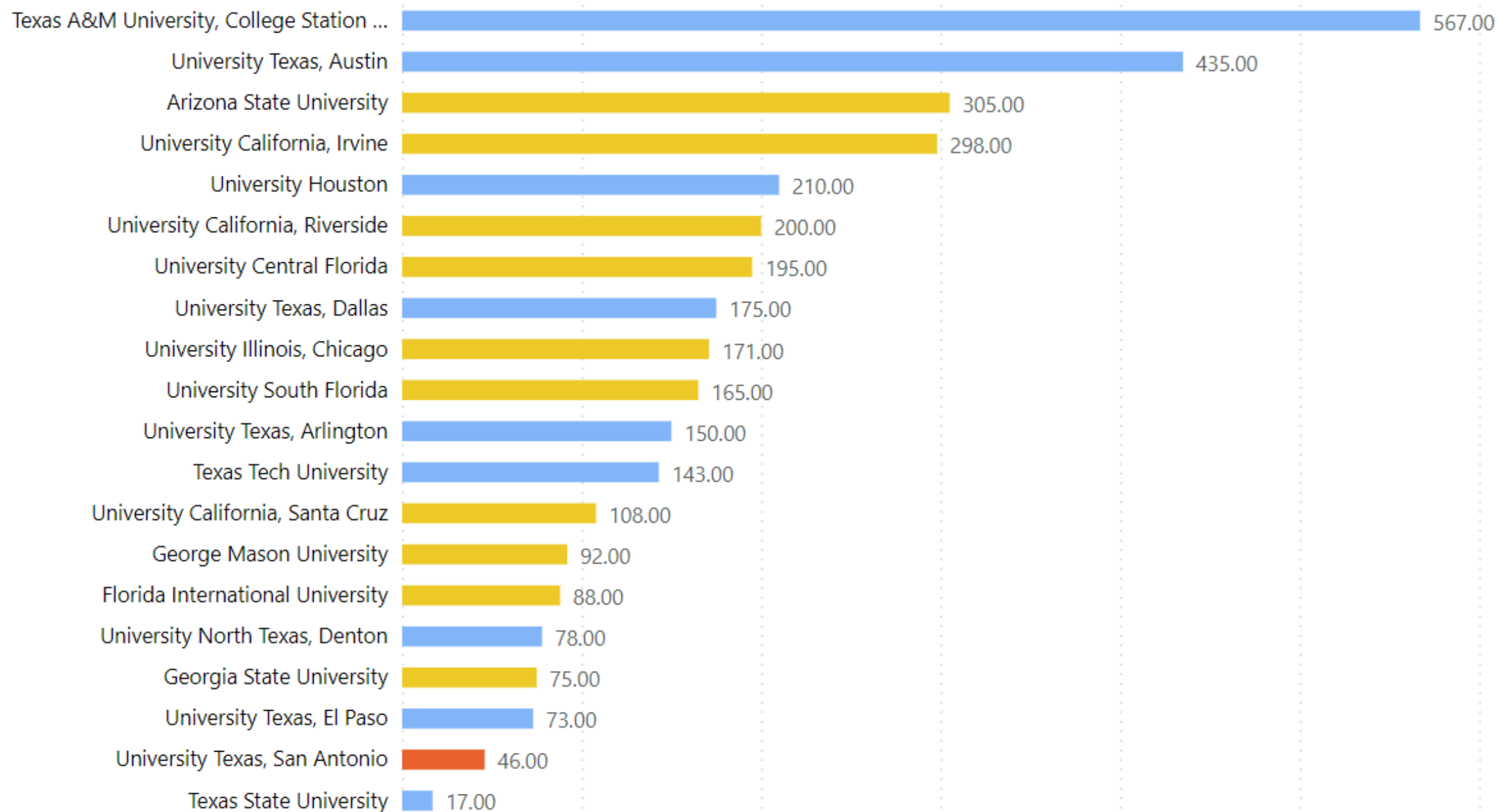
● Peer Models of Excellence ● Texas Research University ● UTSA



STEM PhDs

2020 IPEDS

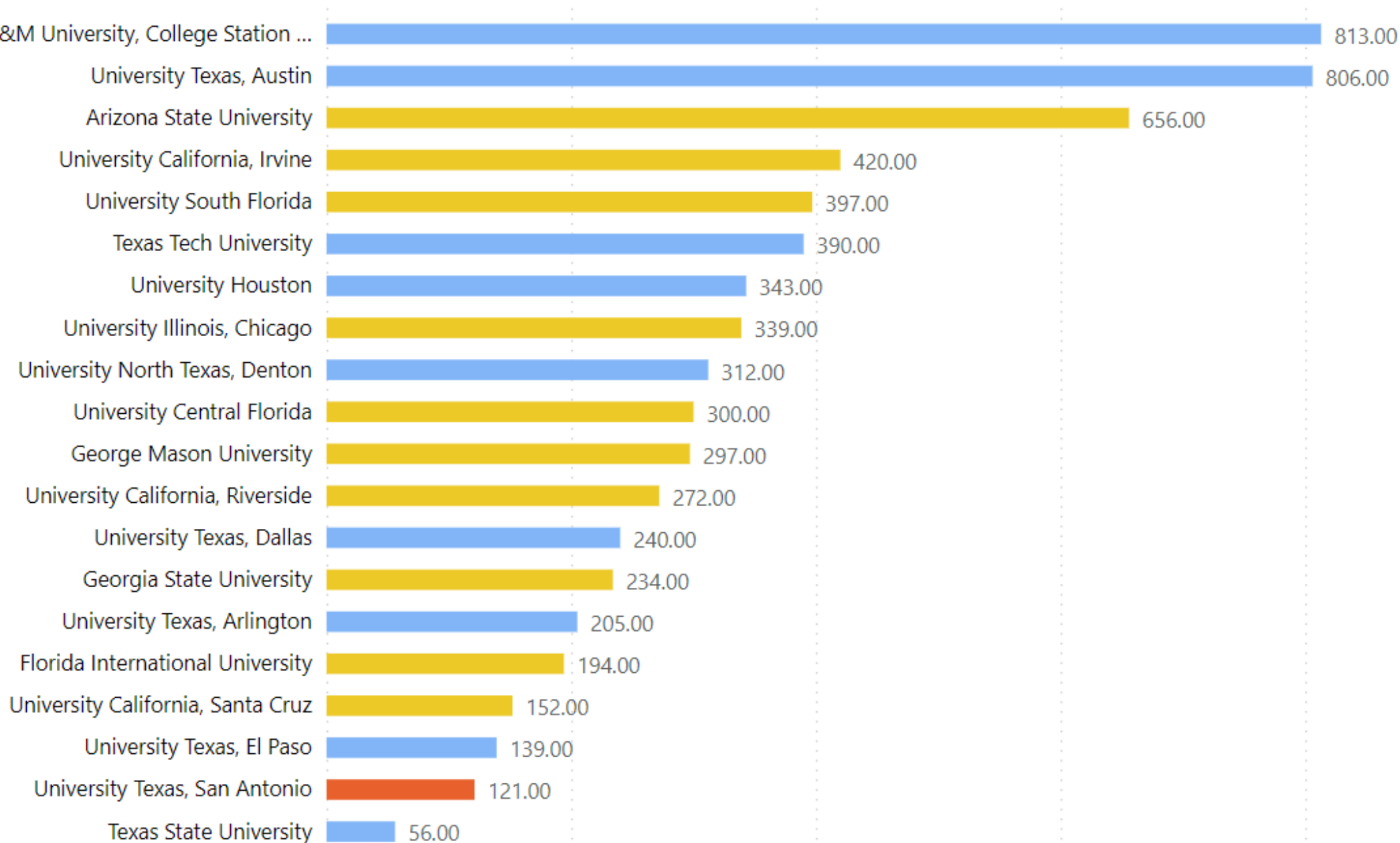
● Peer Models of Excellence ● Texas Research University ● UTSA



Total PhDs

2020 IPEDS

● Peer Models of Excellence ● Texas Research University ● UTSA



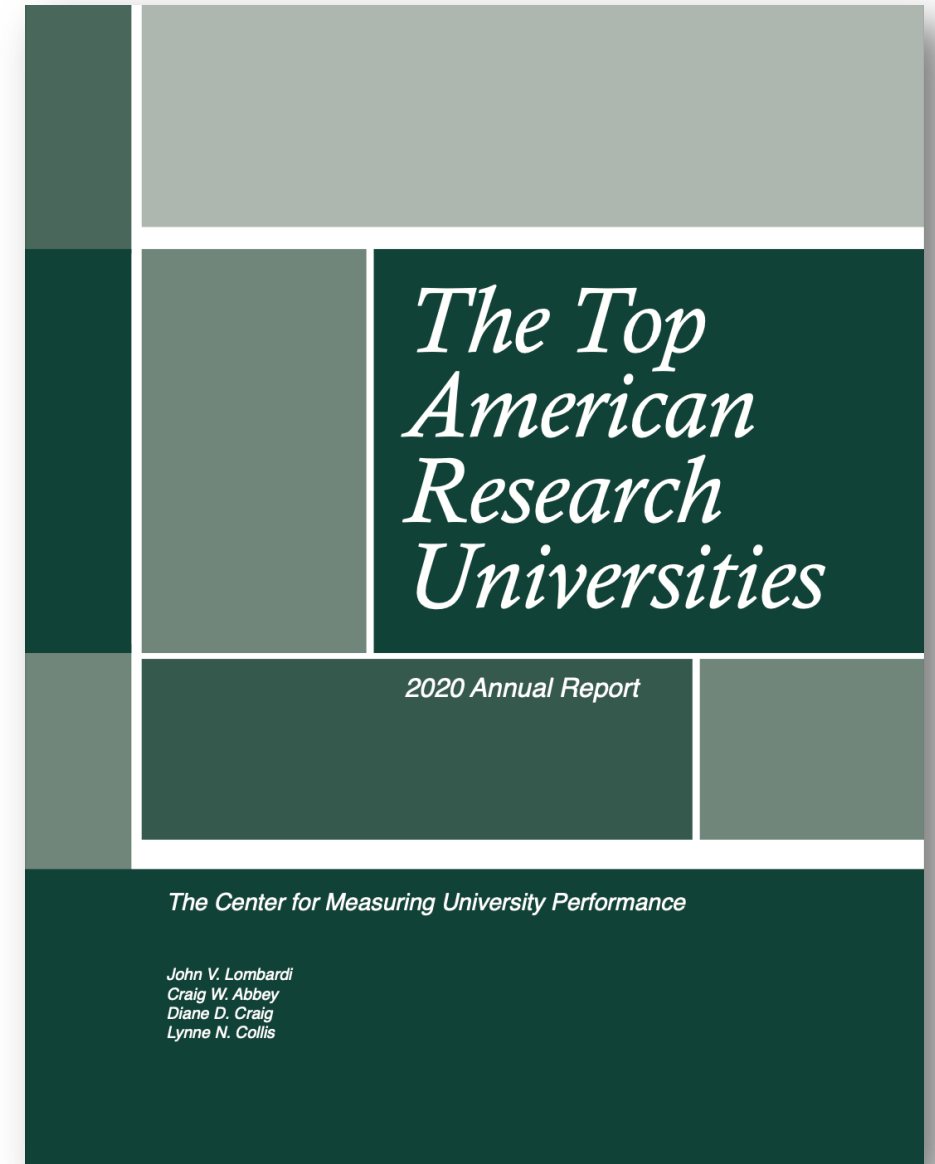
CMUP

SOME DATA

2020 Report, Showing 2019 Data

METRICS:

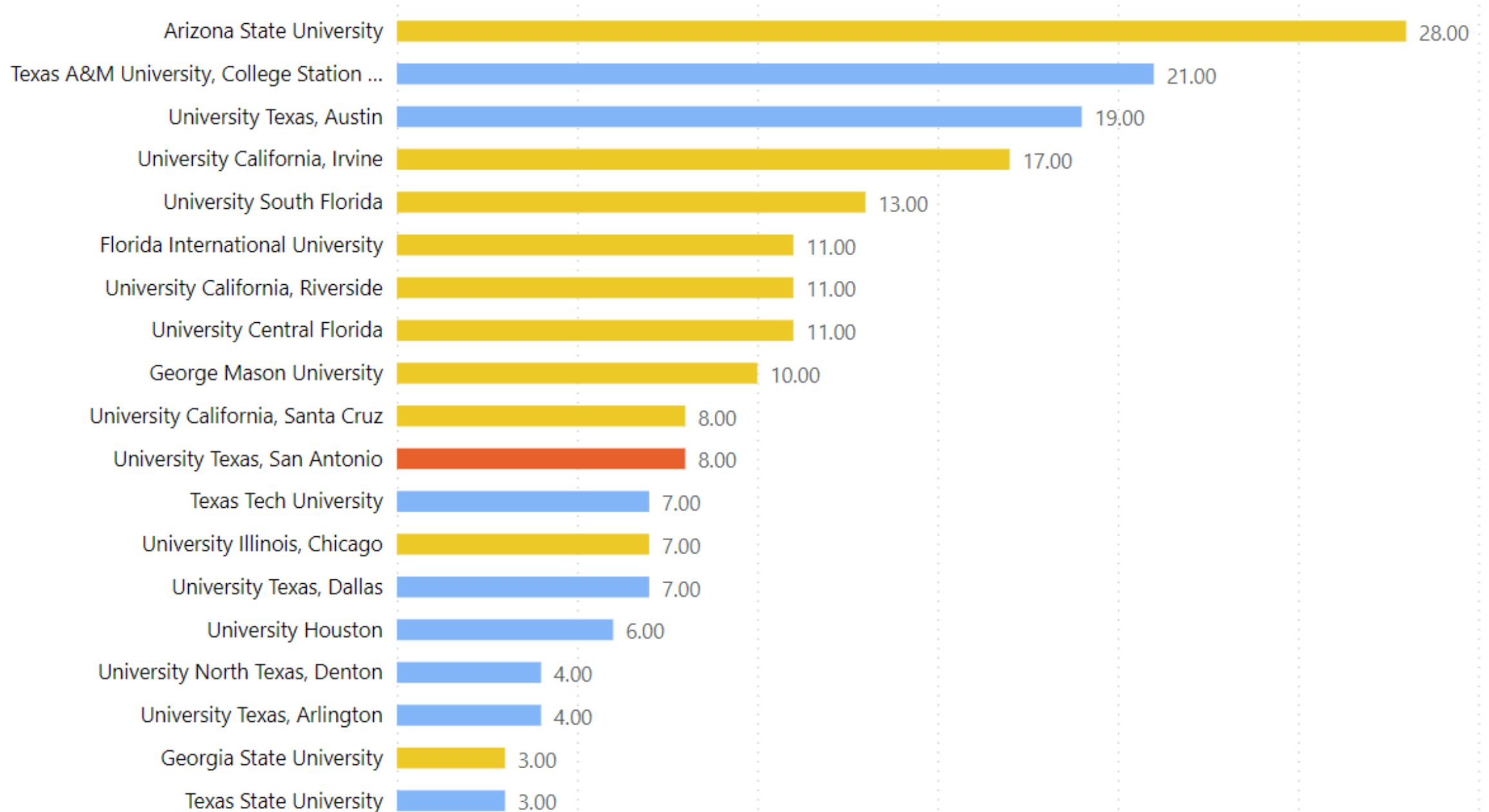
- Faculty Awards
- Doctorates Awarded



Faculty Awards

2020 CMUP

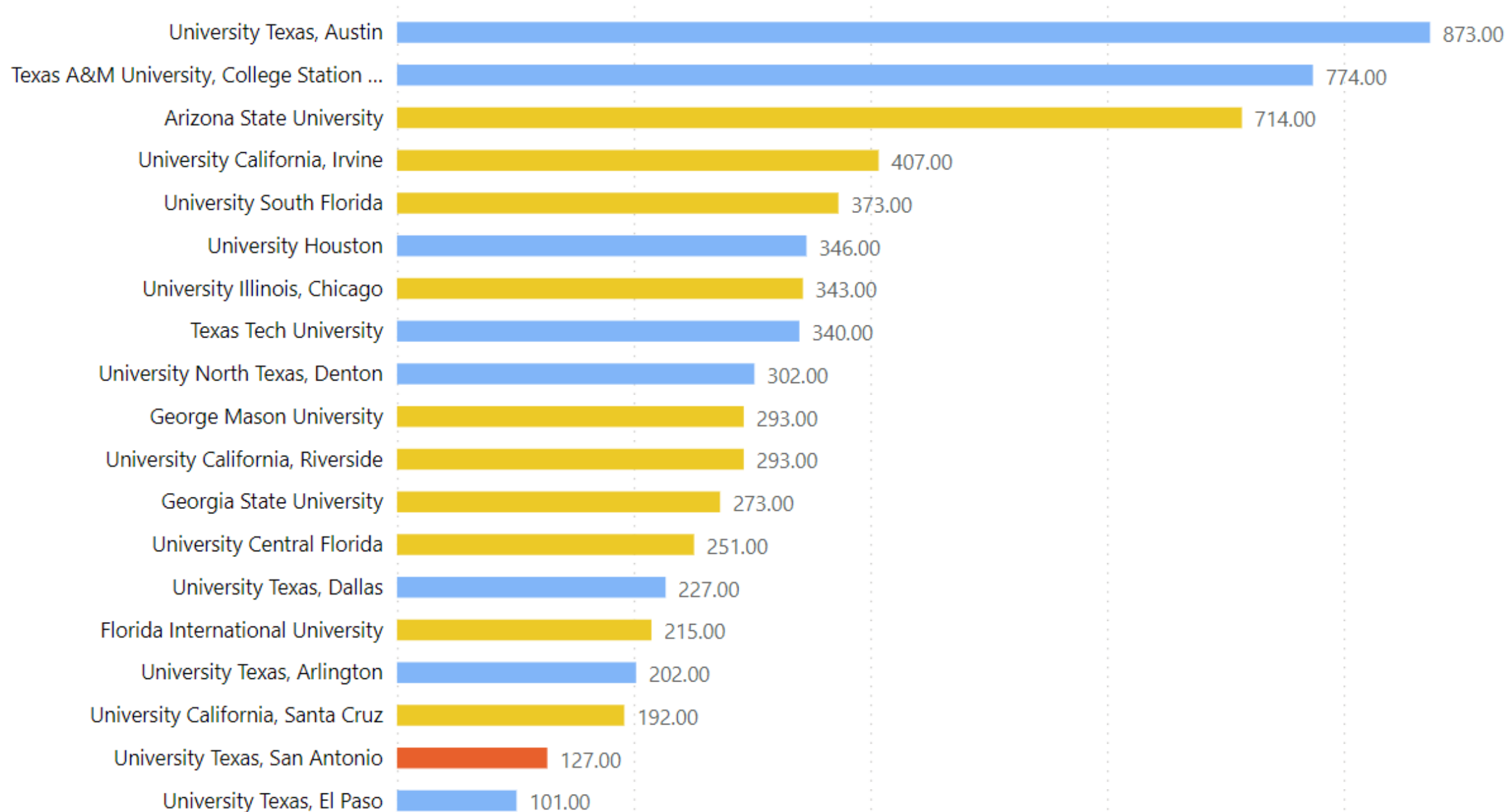
● Peer Models of Excellence ● Texas Research University ● UTSA



Doctorates Awarded

2020 CMUP

● Peer Models of Excellence ● Texas Research University ● UTSA



AAU

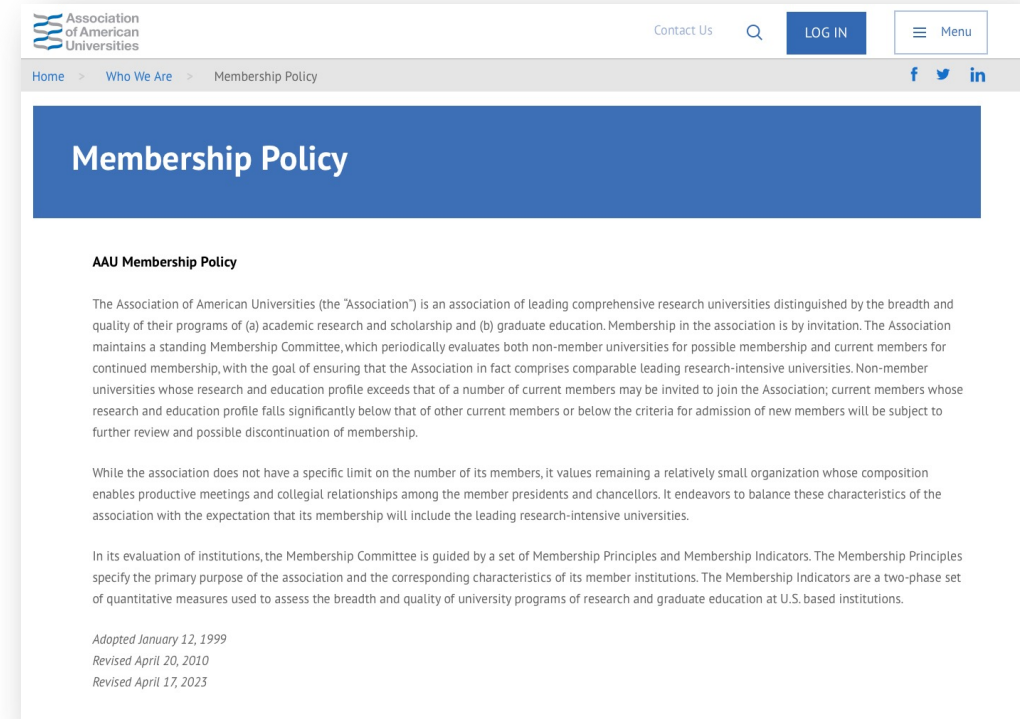
SOME DATA

PHASE 1 METRICS:

- Thompson Reuters InCites Citations
- Books

OTHER CONSIDERATIONS:

- Pell
- Undergraduate Graduation Rates
- Pell Recipient Graduation Rates
- Graduation Rate Gap



The screenshot shows the AAU Membership Policy page. The header includes the AAU logo, navigation links (Home, Who We Are, Membership Policy), a search bar, a LOG IN button, and a Menu icon. The main content area has a blue header with the title "Membership Policy". Below this, the text describes the AAU Membership Policy, stating that the Association is an association of leading comprehensive research universities. It details the Membership Committee's role in evaluating non-member universities and the criteria for membership. The page also mentions that the Association values a relatively small organization and aims to balance these characteristics with the expectation of including leading research-intensive universities. The Membership Committee is guided by Membership Principles and Indicators. The page is dated as adopted on January 12, 1999, revised on April 20, 2010, and revised on April 17, 2023.

Association of American Universities

Contact Us

LOG IN

Menu

Home > Who We Are > Membership Policy

Membership Policy

AAU Membership Policy

The Association of American Universities (the "Association") is an association of leading comprehensive research universities distinguished by the breadth and quality of their programs of (a) academic research and scholarship and (b) graduate education. Membership in the association is by invitation. The Association maintains a standing Membership Committee, which periodically evaluates both non-member universities for possible membership and current members for continued membership, with the goal of ensuring that the Association in fact comprises comparable leading research-intensive universities. Non-member universities whose research and education profile exceeds that of a number of current members may be invited to join the Association; current members whose research and education profile falls significantly below that of other current members or below the criteria for admission of new members will be subject to further review and possible discontinuation of membership.

While the association does not have a specific limit on the number of its members, it values remaining a relatively small organization whose composition enables productive meetings and collegial relationships among the member presidents and chancellors. It endeavors to balance these characteristics of the association with the expectation that its membership will include the leading research-intensive universities.

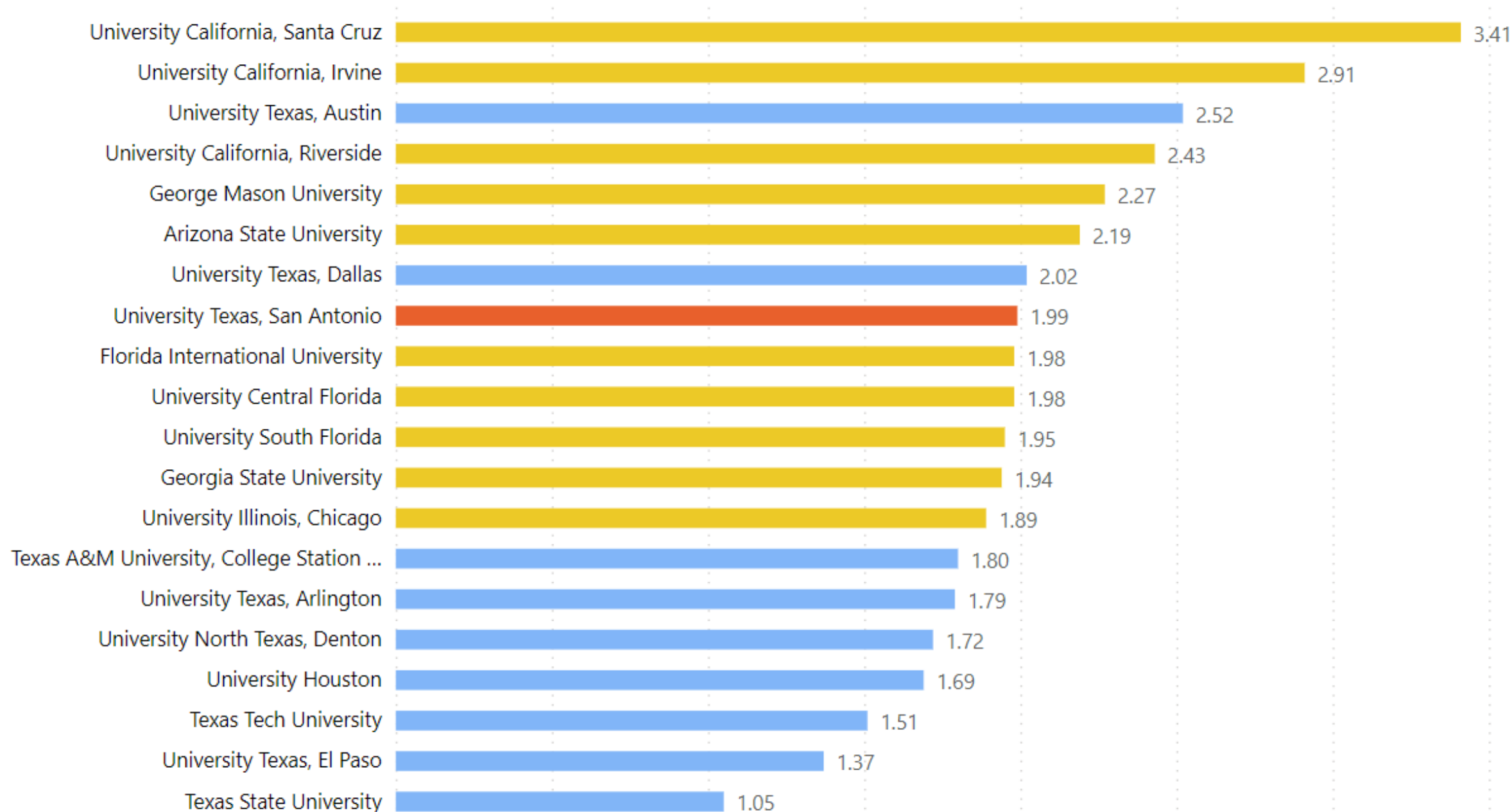
In its evaluation of institutions, the Membership Committee is guided by a set of Membership Principles and Membership Indicators. The Membership Principles specify the primary purpose of the association and the corresponding characteristics of its member institutions. The Membership Indicators are a two-phase set of quantitative measures used to assess the breadth and quality of university programs of research and graduate education at U.S. based institutions.

Adopted January 12, 1999
Revised April 20, 2010
Revised April 17, 2023

% of Web of Science Documents in the World's Top 1%

2018-2022 Clarivate InCites

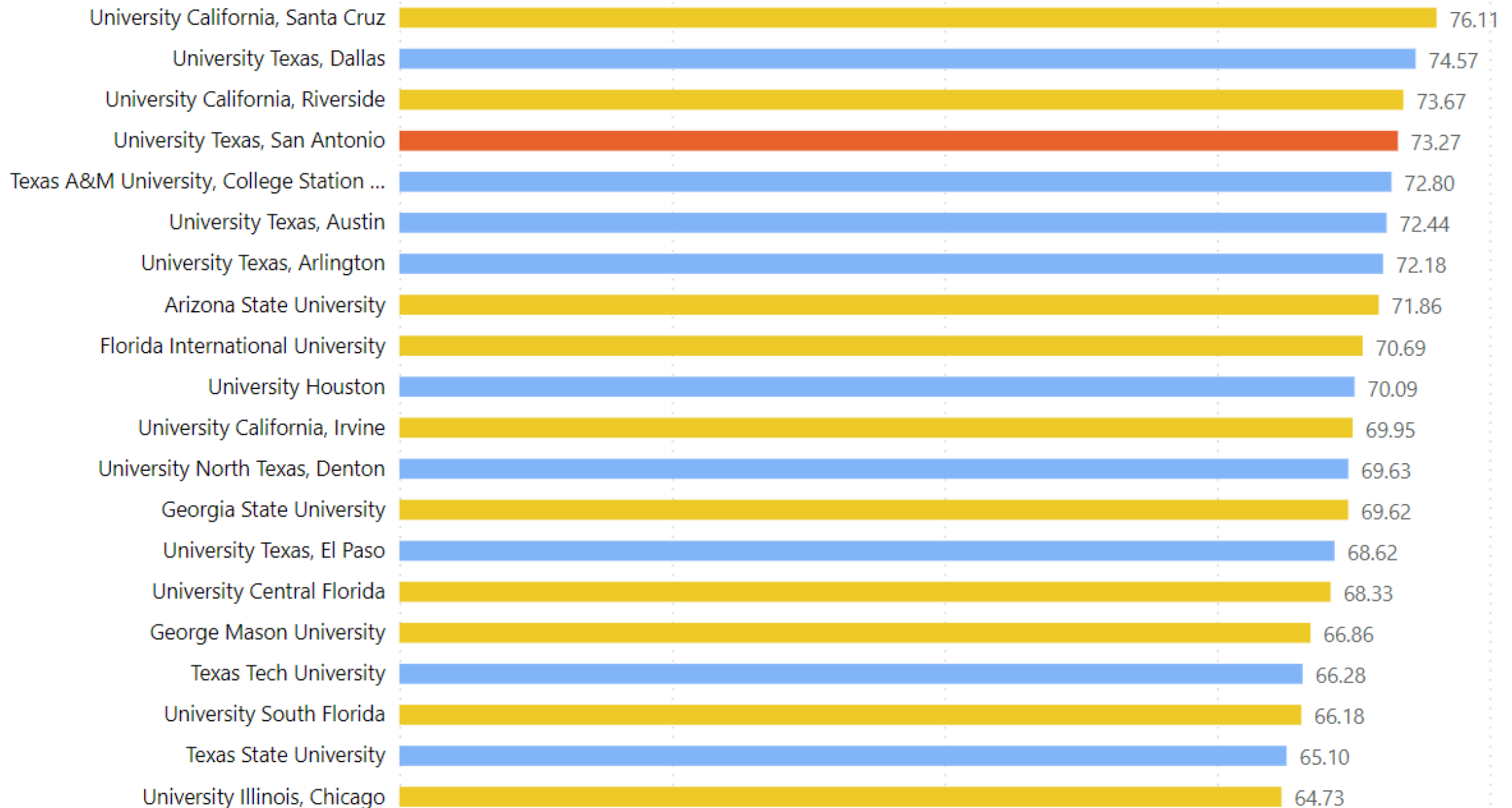
● Peer Models of Excellence ● Texas Research University ● UTSA



% of Web of Science Documents Cited

2018-2022 Clarivate InCites

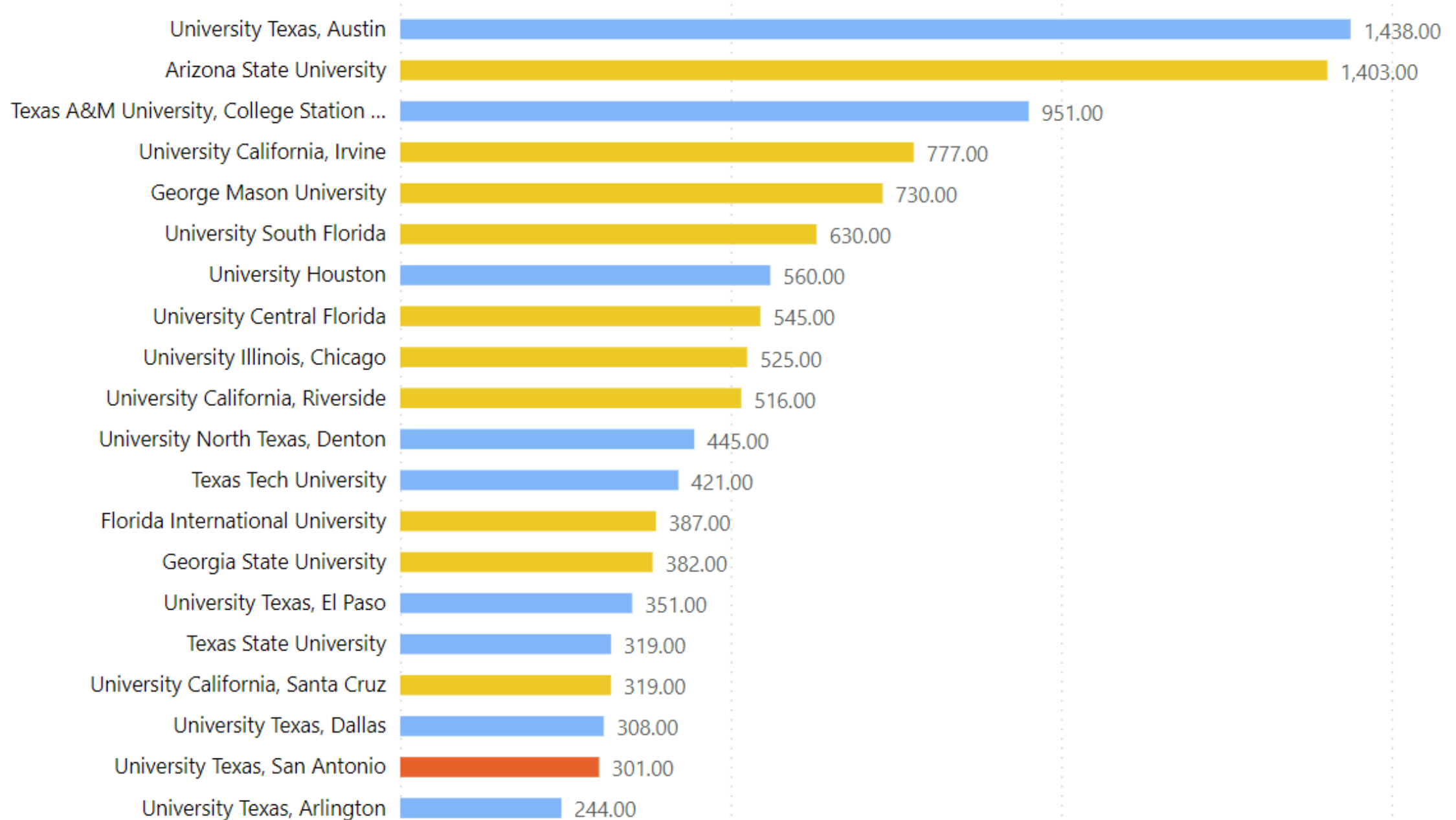
● Peer Models of Excellence ● Texas Research University ● UTSA



Count of Books Published

2021 Academic Analytics

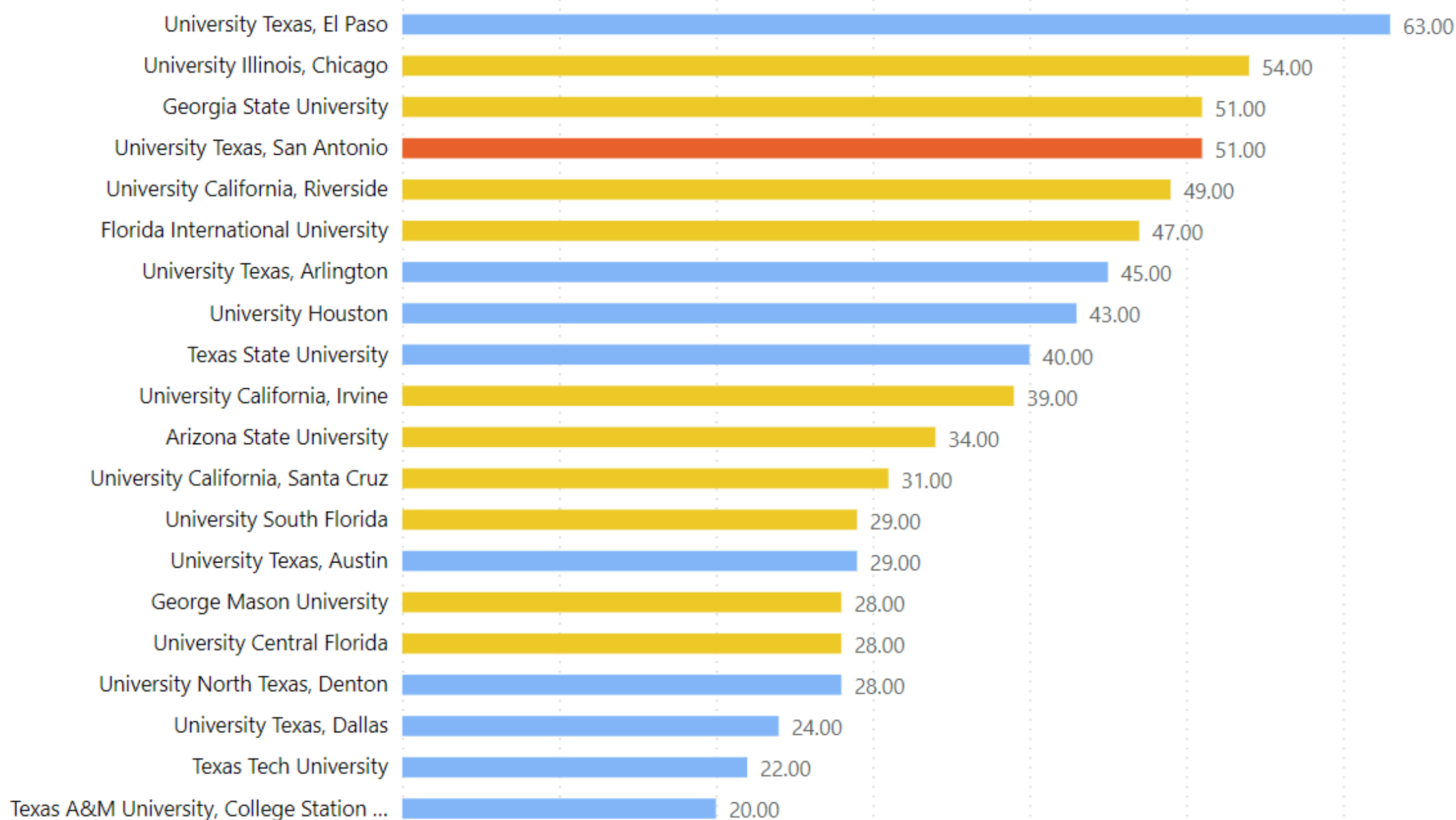
● Peer Models of Excellence ● Texas Research University ● UTSA



Pell Enrollment

2020 IPEDS

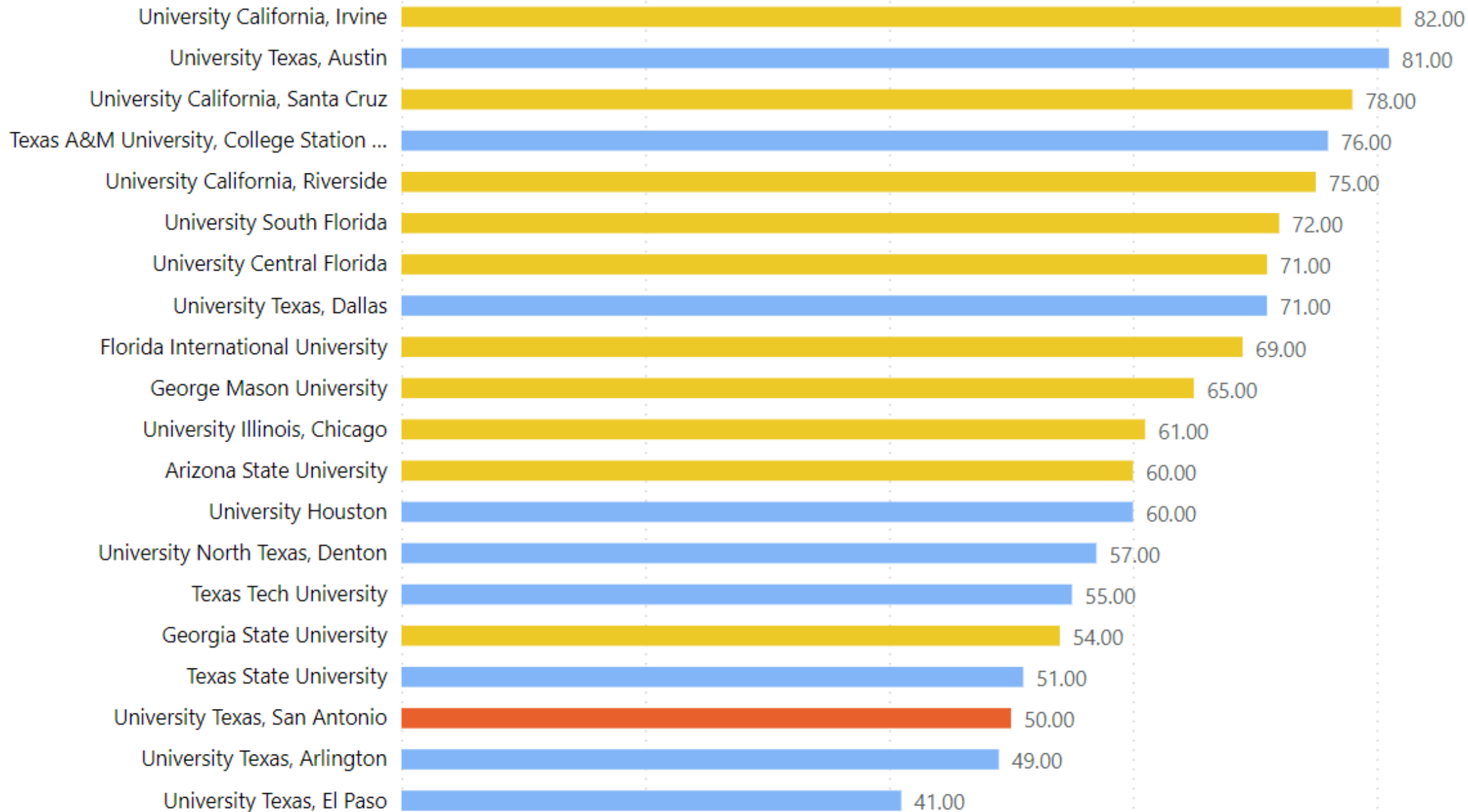
● Peer Models of Excellence ● Texas Research University ● UTSA



Pell Grant Recipient Graduation Rate

2020 IPEDS

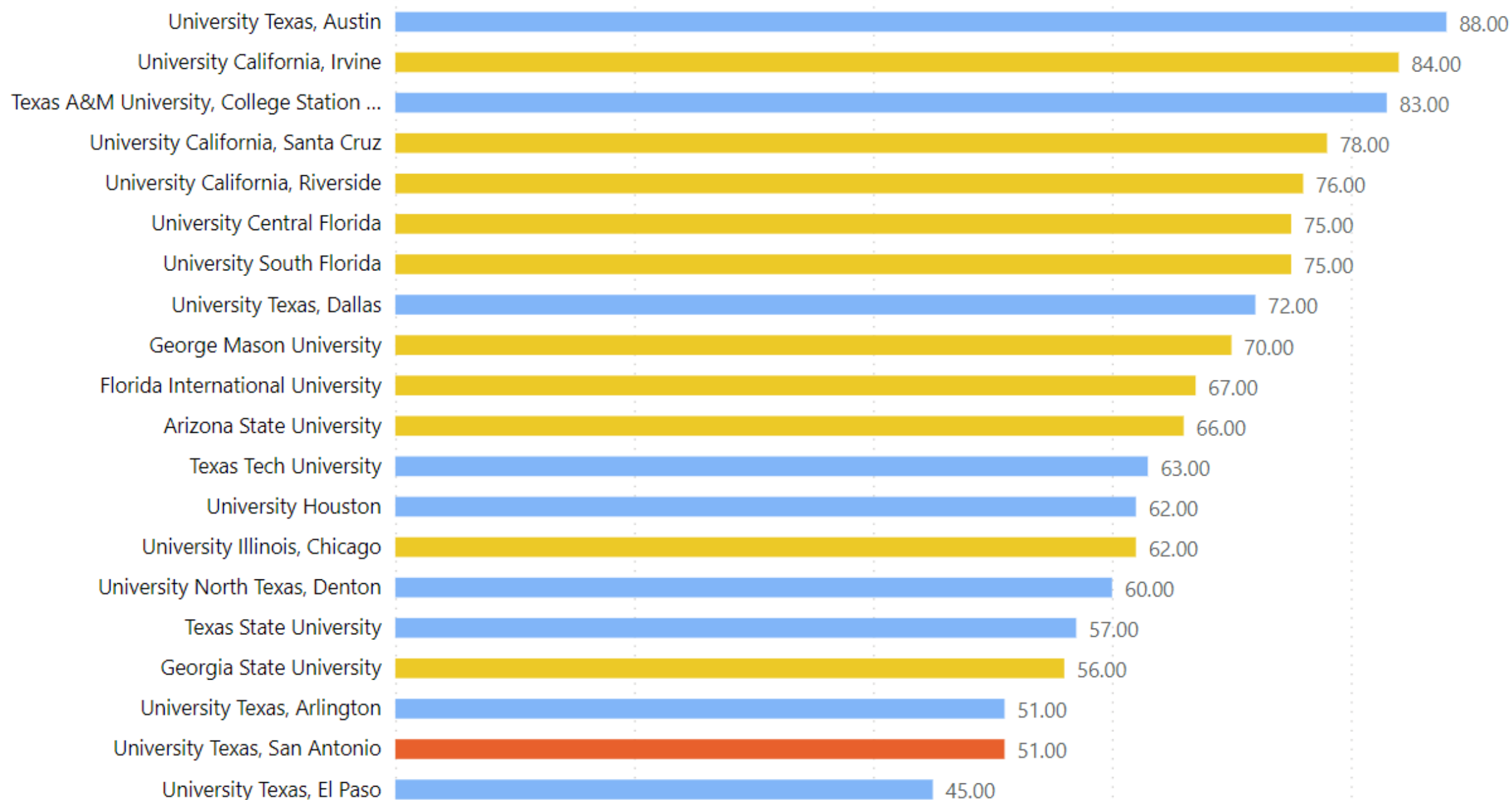
● Peer Models of Excellence ● Texas Research University ● UTSA



Undergraduate Graduation Rate

2020 IPEDS

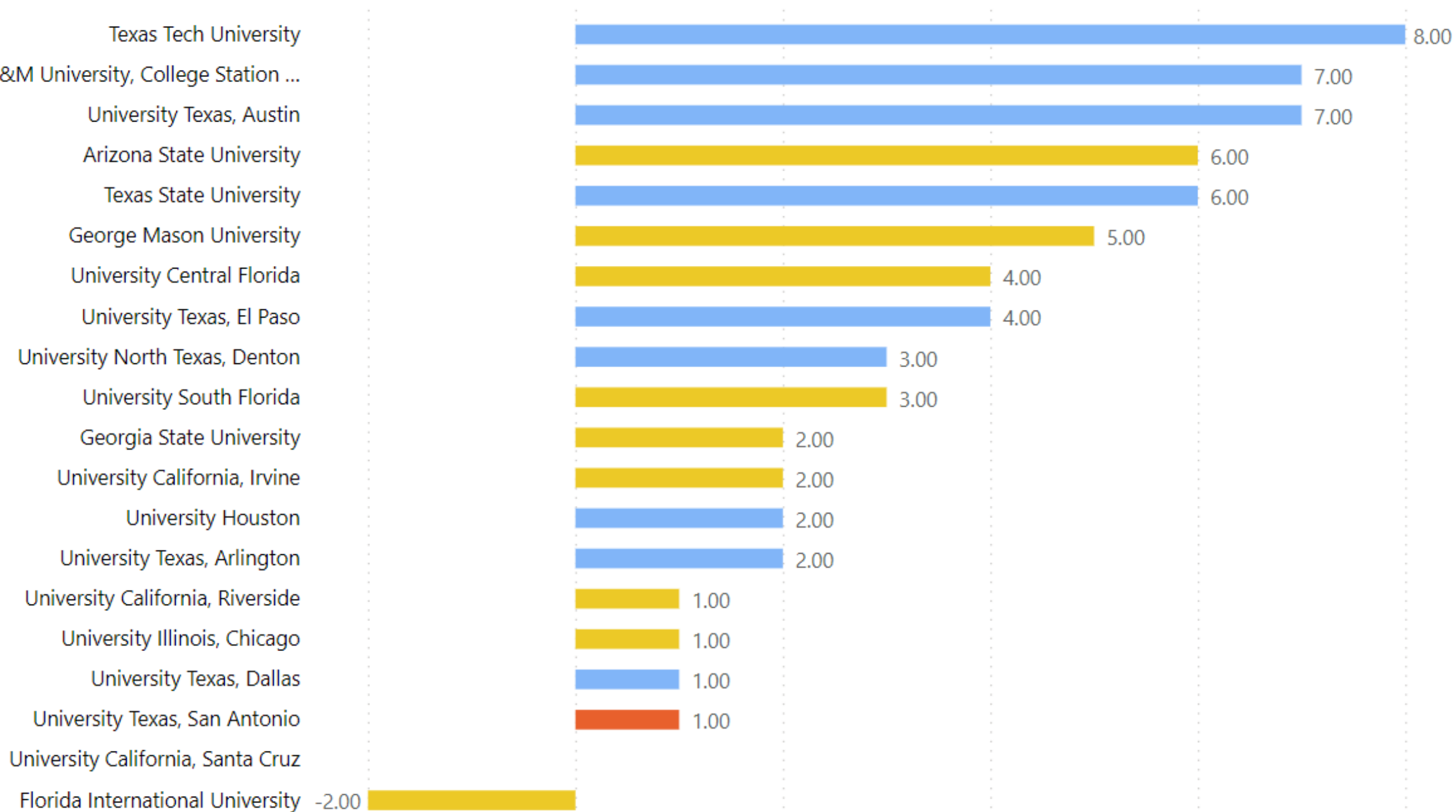
● Peer Models of Excellence ● Texas Research University ● UTSA



Graduation Rate Gap

2020 IPEDS

● Peer Models of Excellence ● Texas Research University ● UTSA



RESEARCH PILLARS



Digital Economy

- AI & Machine Learning
- Cloud & Edge Computing
- Cyber Security
- Data Science & Analytics
- NexGen Wireless
- Quantum



Fundamental Futures

- Environmental Change
- Earth & Space Sciences
- Energy & Manufacturing
- National Security & Defense
- Smart Infrastructure



Human Health

- Bioregeneration
- Brain Health & Neuroengineering
- Health Disparities
- Human Performance
- Infectious Disease
- Precision Therapeutics



Culture & Inclusion

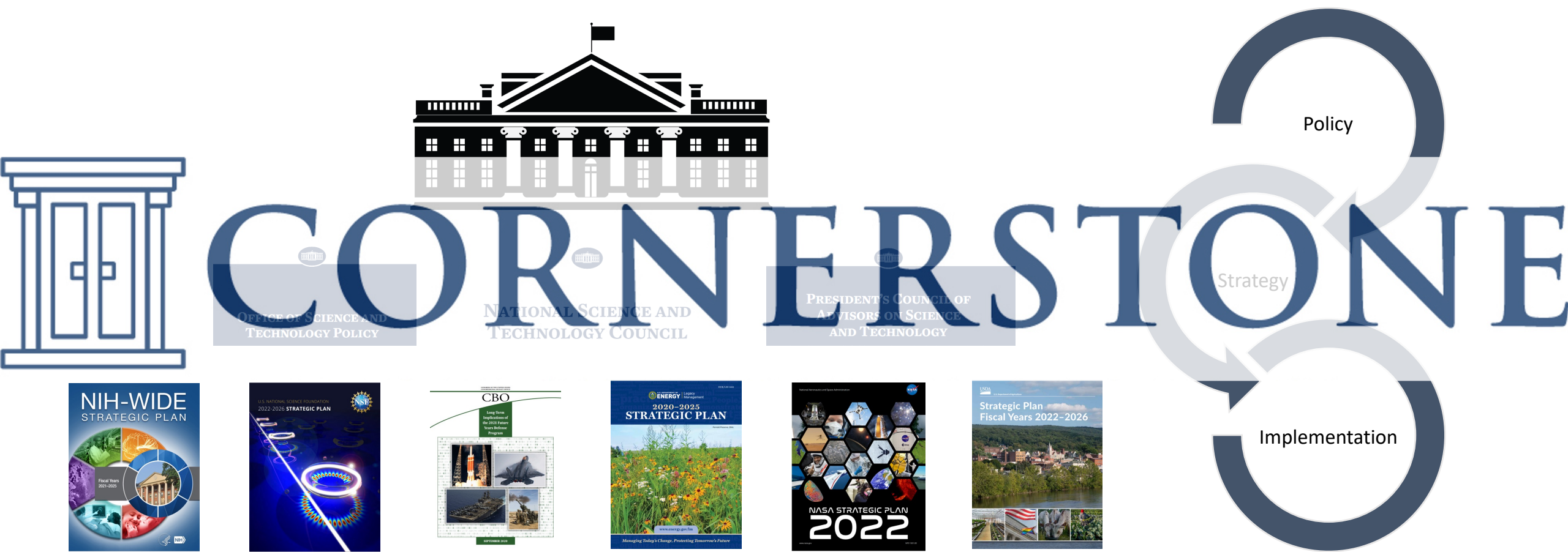
- Cultural Sustainability
- Digital Humanities
- Disability Studies
- Language & Literacy
- Race & Ethnic Studies
- Women & Gender Studies



Socio-Economic Transformation

- Career-Engaged Education
- Entrepreneurship
- Human Development
- Justice
- Socioeconomic Equity

FEDERAL AWARDS: KNOWLEDGE & INFLUENCE



UTSA RESEARCH METABOLISM

TOTAL RESEARCH DOLLARS

\$145 M

FIVE YEAR CHANGE

103%

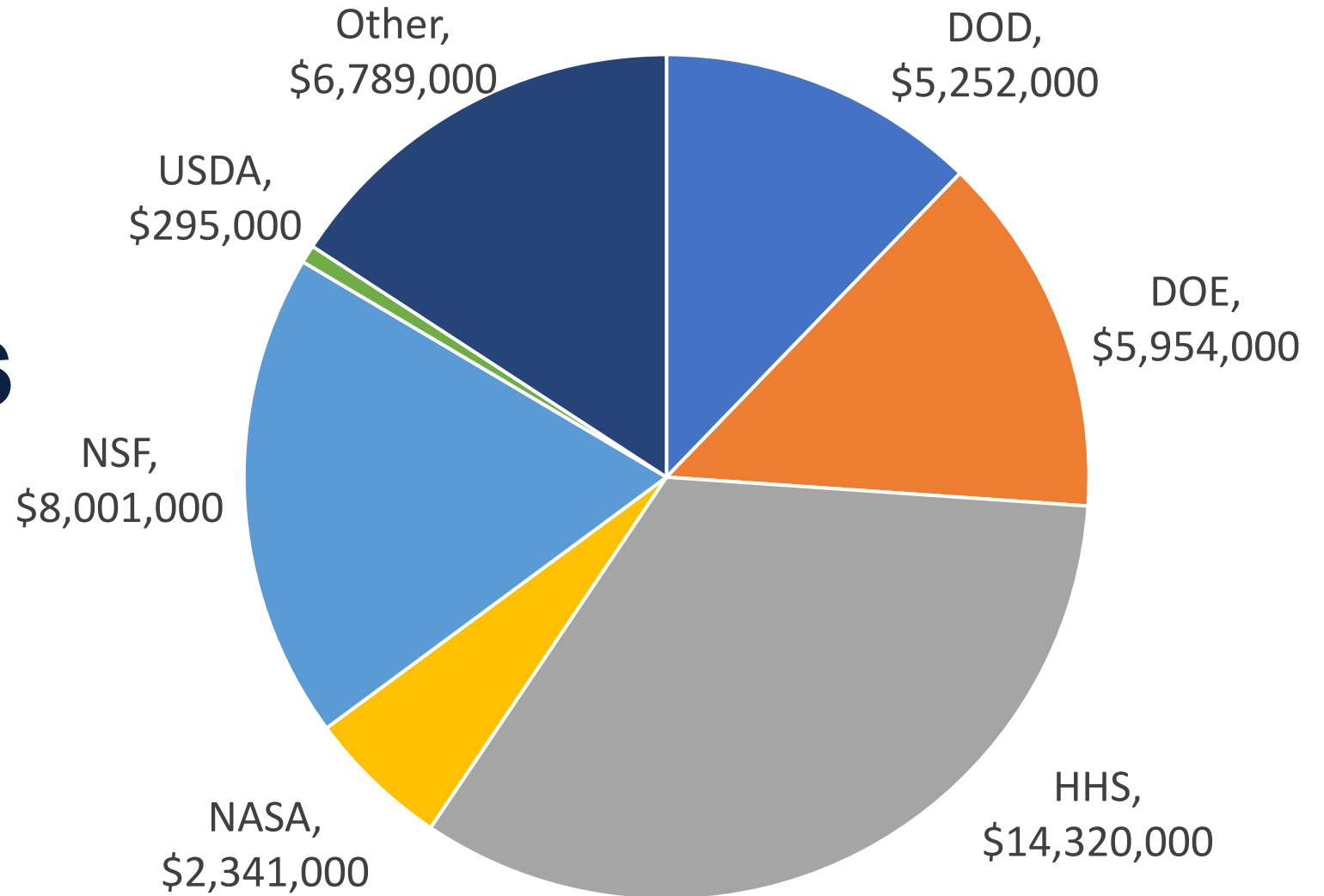
FEDERAL DOLLARS

\$43 M

FIVE YEAR CHANGE

80%

2021 UTSA FEDERAL RESEARCH & DEVELOPMENT EXPENDITURES (HERD)



Strategic Research Development



CORE COMPETENCIES

Top 5 Areas by Publication Categories

2018-2022 Clarivate InCites
 Research Area Schema:
 Citation Topics micro

Measure	1	2	3	4	5
InCites Analysis By Publication Categories					
WOS Documents	Random Oracle Model	Metal-Organic Frameworks	PTSD	Malware	Magnetosphere
Times Cited	Metal-Organic Frameworks	Blockchain	Random Oracle Model	Object Tracking	Deep Learning
Highly Cited Papers	Metal-Organic Frameworks	Blockchain	Random Oracle Model	Radio Astronomy	Unmanned Aerial Vehicles
Corresponding Author	Metal-Organic Frameworks	Malware	Corporate Governance	Crime	Language Policy
Hot Papers	X-Rays: Binaries	Alzheimer's Disease	Metal-Organic Frameworks	Differential Privacy	Radio Astronomy

Computer-Data

Random Oracle Model

Blockchain

Malware

Object Tracking

Deep Learning

Differential Privacy

Energy-Materials

MOF

Space-Physics

Radio Astronomy

X-Rays: Binaries

Magnetosphere

Health

Alzheimer's

PTSD

Other

Corporate Gov

Crime

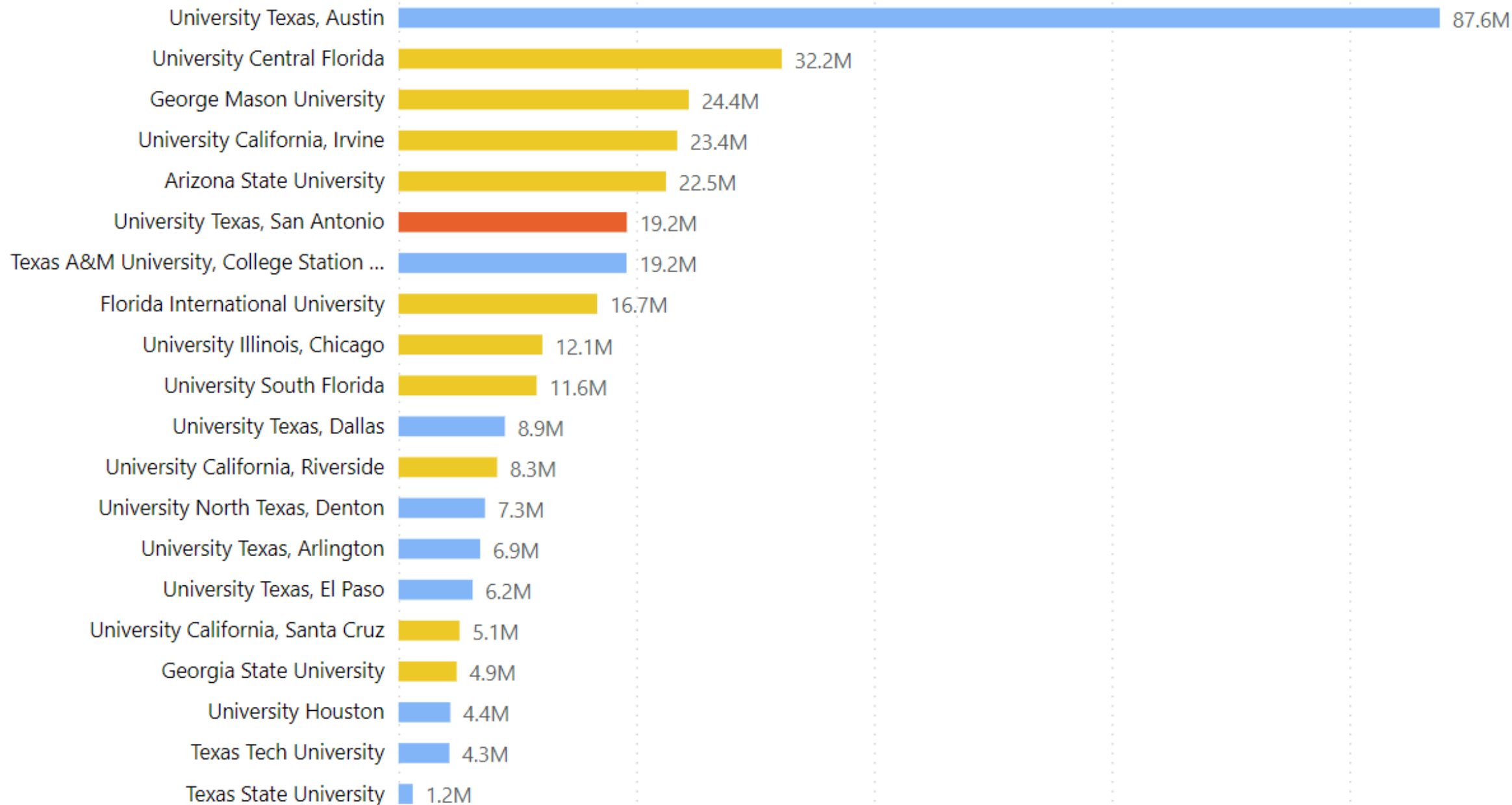
Unmanned Aerial Vehicles

Language Policy

Computer and Information Sciences Expenditures

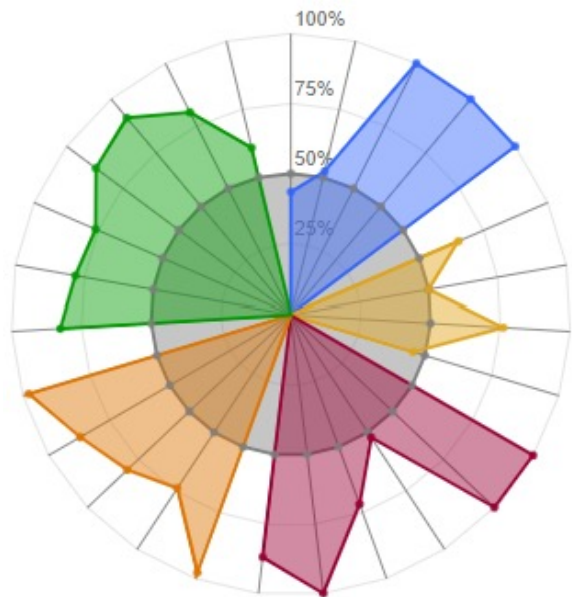
2021 Higher Education Research and Development (HERD)

● Peer Models of Excellence ● Texas Research University ● UTSA

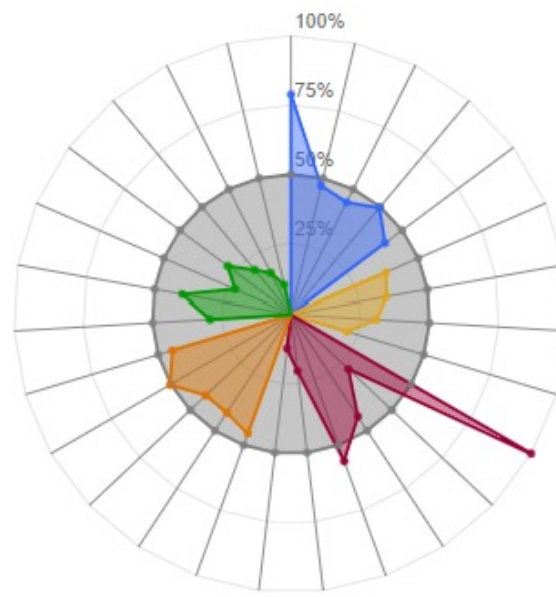


ACADEMIC ANALYTICS: COMPARE CARNEGIE R1

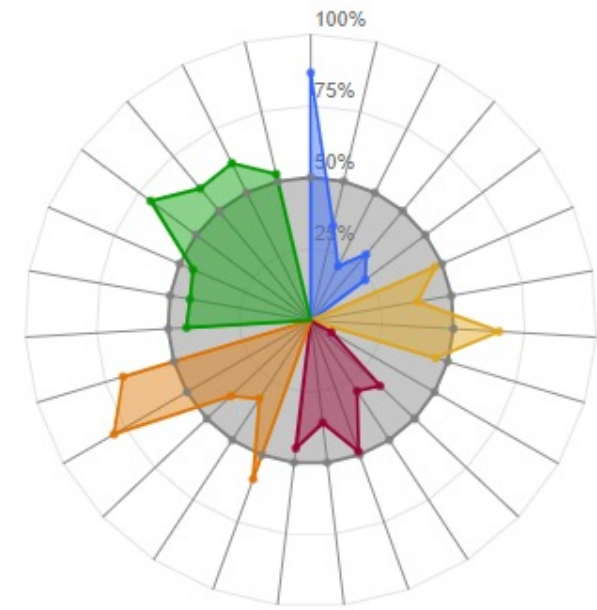
- Median
- Articles
- Awards
- Books
- Citations
- Conference Proceedings
- Federal Grants



Information Systems
& Cyber Security



Electrical & Computer
Engineering



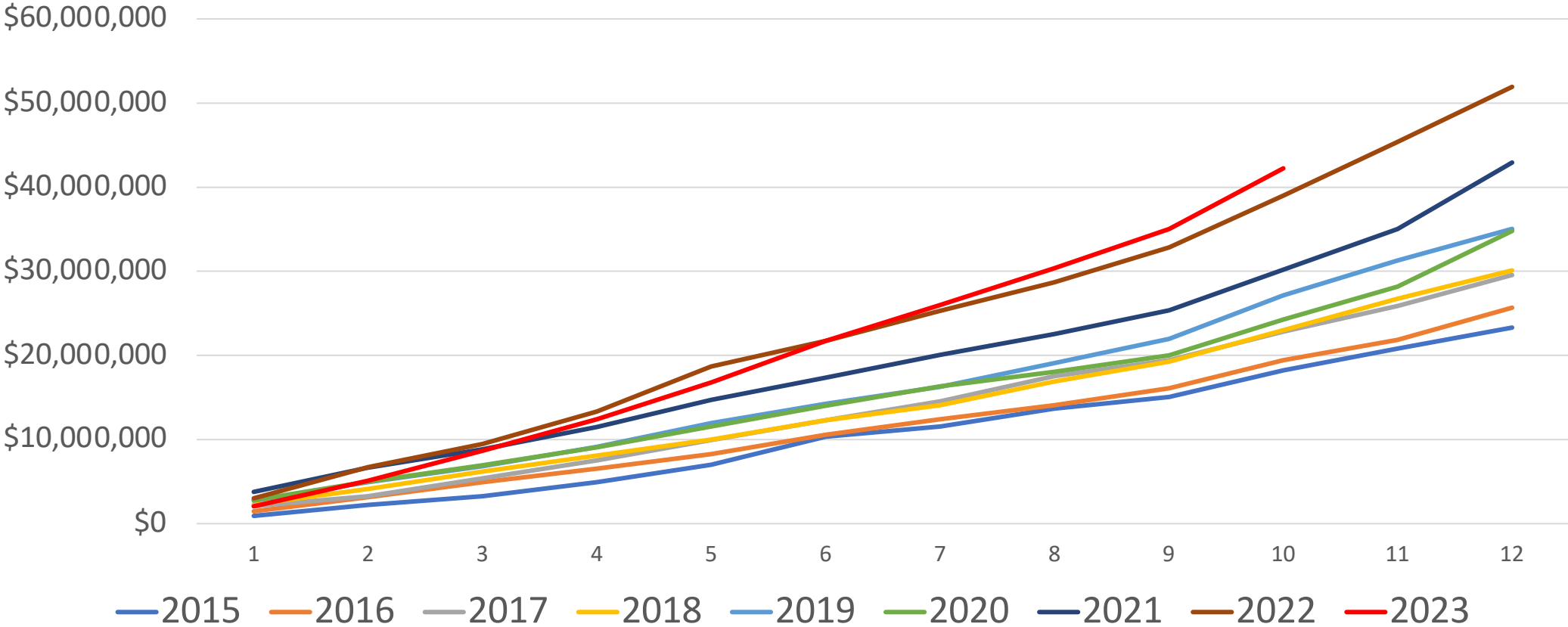
Computer Science

CORE COMPETENCIES BY FEDERALLY-FUNDED LARGE PROJECTS*

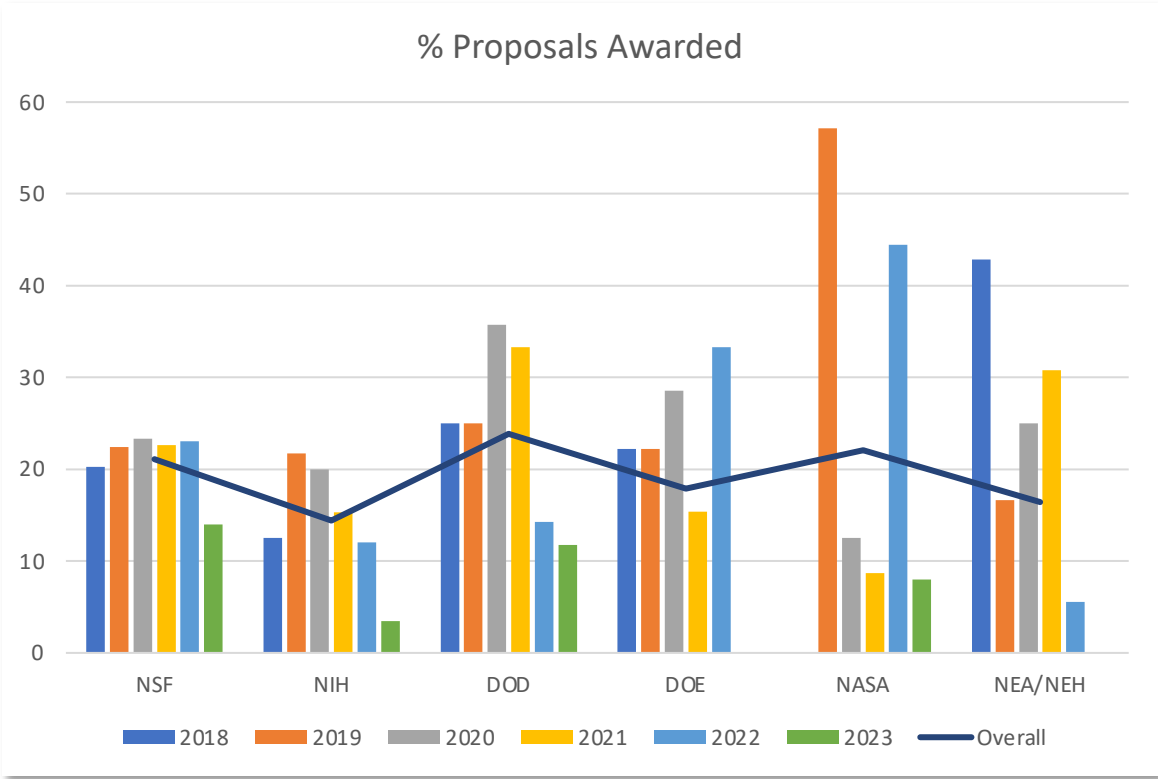
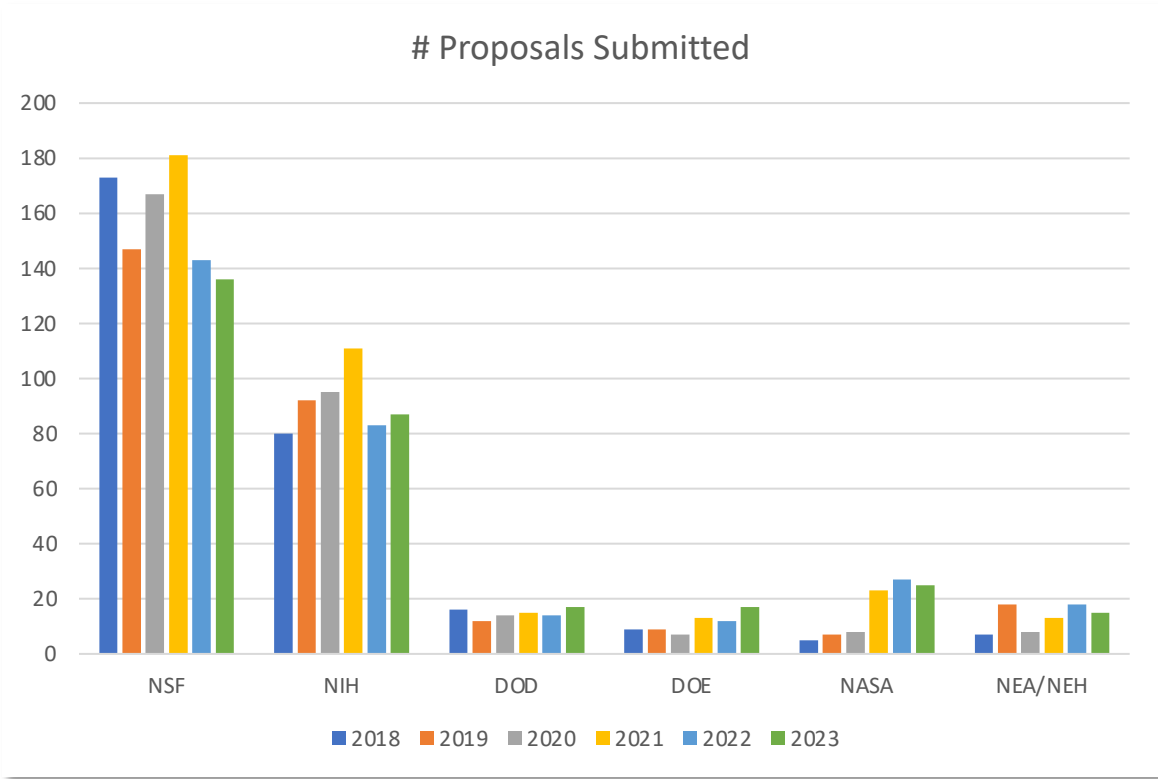
Area	Total Funding 2018-2023	Number	Agencies
Security Systems	\$108M	9	DoE, DoD, DHS
Internet Of Things	\$90M	3	DoE, DoD
Software Engineering	\$88M	2	DoE, DoD
Data Structures, Algorithms & Complexity	\$70M	1	DoE
Clinical & Life Sciences	\$37M	8	NIH
Education	\$34M	13	NSF, ED, USDA, DHS
Artificial Intelligence & Machine Learning	\$33M	5	DoE, DoD
Distributed & Real Time Computing	\$18M	1	DoD
Psychiatry & Psychology	\$7M	2	ED and NIH
Space Sciences	\$6.5M	3	NASA
Astronomy & Astrophysics	\$6.5M	3	NASA
Meteorological & Atmospheric Sciences	\$5M	2	NASA
Civil Engineering	\$1.3M	1	federal pass through
Unmanned Aerial Vehicles	\$1.2M	1	federal pass through
Power Systems & Electric Vehicles	\$1.2M	1	federal pass through

SUCCESS IN FEDERAL FUNDING

UTSA Federal Research Expenditures



SUCCESS IN FEDERAL FUNDING



Key Take-Aways

UTSA R1 Culture – To Reach our Next Goals in our Journey

- Produce new knowledge that changes our lives and the world
- Seek recognition for faculty and bring recognized faculty onto our Teams
- Graduate next generation of experts (PhD)
- Increase position in federally-funded research
- Increase position in NSF and NIH funding

At Your Table: Be a Futurist

Imagine it's 2035 and UTSA has just been named the 85th member of the Association of American Universities (AAU), a designation that is reserved for North America's leading research universities. UTSA achieved this designation for its track record for securing federal grants, interdisciplinary research centers targeting some of society's most pressing challenges, housing some of the nation's top researchers, including a Nobel Laureate. Admission into UTSA's undergraduate and graduate programs is increasingly competitive as students seek to launch their research careers at an institution that is distinguished by its productivity, its location in the bustling "Austintonio" metroplex, and its international reputation for excellence in mentoring. The research infrastructure boasts some of the most unique facilities, equipment, and computing resources in the nation.

Think about all the attributes of this UTSA Future and make two lists (choose a Recorder):

1. What are 100 things researchers will need help with in this "evolved" UTSA?
2. What are 100 ways researchers could help each other in this "evolved" UTSA?

PRIZES

Report the number of ideas you generated, and the 5 most innovative.

There will be **PRIZES for the most complete and innovative responses!**

UTSA[®]

CREATING

BOLD

FUTURES