



AGENDA FOR PUBLIC/CLOSED SESSION

Call to Order Chair Bill Wood

1. [Approval of Minutes](#) Regent Bill Wood
2. [Highlights on Research Excellence Across the USM](#) Vice Chancellor for Research and Economic Development Michele Masucci
3. [Metrics for Research and Economic Development](#) Vice Chancellor for Research and Economic Development Michele Masucci
Executive Director of Economic Development
Lindsay Ryan
Director of Research Development
Julia Chadwick
4. [Metrics as a Driver of Impact](#) Vice Chancellor for Research and Economic Development Michele Masucci
5. [Discussion Topics](#)
 - a) Economic Impacts of Research
 - b) Research and Economic Development Lab Visits Over the Summer
 - c) Research and Economic Development Policies



UNIVERSITY SYSTEM
of MARYLAND

BOARD OF REGENTS
COMMITTEE ON Research and Economic Development
1/9/2026
Meeting via Video and Conference Call

Minutes of the Public Session

Regent Wood called the meeting of the Research and Economic Development Committee of the University System of Maryland Board of Regents to order in public session at 10:00 a.m. on 1/9/2026 via Zoom.

Those in attendance included Regents Bill Wood, Anwer Hasan, Robert Hur, Dhruvak Mirani, Michele Speaks; Chair Linda Gooden; Vice Chancellors Michele Masucci, Mike Sandler, and Timothy Minor; Lindsay Ryan, Julia Chadwick, Michael Ravenscroft, Jennifer Walsh, Jeffrey Simcoe, Yvonne Harris, Michael Jensen.

1. **Approval of Minutes (action)** The Regents reviewed and approved the minutes for the November 21 meeting of the Research and Economic Development Committee.

(Regent Speaks moved recommendation, seconded by Regent Mirani; approved)

Vote Count = Years: 6 Nays: 0 Abstentions: 0

2. **Research Report from Frostburg State University (information)** Senior Associate and Vice President of FSU's Division of Advancement and Regional Engagement Jennifer Walsh and Executive Director of the Frostburg Outdoor Recreation Economy Institute Jeffrey Simcoe gave the research report for Frostburg State University to the Research and Economic Development Committee. Senior Associate Walsh and Executive Director Simcoe highlighted strides FSU has made in furthering Maryland's outdoor recreation economy, focusing on the establishment of the Frostburg Outdoor Recreation Economy Institute (FOREI) and the Outdoor Business Alliance of Appalachia Maryland (OBAAM). All meeting materials are available on the USM website.
3. **Research Report from Bowie State University (information)** Vice President for Research and Innovation Yvonne Harris gave the research report for Bowie State University to the Research and Economic Development Committee. Vice President Harris provided an overview of Bowie State University's student enrollment data from 2025. She also covered Bowie State University's research institutes, notable research projects in biotechnology, artificial intelligence, and cyber security, and research awards and expenditures. Vice President Harris provided data on Bowie State's research awards and expenditures year-by-year from 2021 to 2025, breaking down funding by source and allocation, and highlighting Bowie State's path to becoming an R2 research institution. All meeting materials are available on the USM website.
4. **Salisbury University Innovation Update (information)** Executive Director of Entrepreneurship Michael Jensen provided an update on tech-based economic development initiatives at Salisbury University to the Research and Economic Development Committee. Salisbury University previously gave a research report to the committee on December 10, 2024. Since then, Salisbury

University received a TEDCO Equitech award that allowed for the expansion of several SU technology projects and initiatives. Executive Director Jensen focused on how the \$800k award is being allocated on things like the Computer Visioning System for Chick Counting that began with an EPIIC grant, expanding product prototyping and training services, expanding student entrepreneurship competitions, and creating a new Innovation Readiness online training program. All meeting materials are available on the USM Website.

5. **Research Landscape Update (information)** Vice Chancellor for Research and Economic Development Michele Masucci provided an update on the research landscape to the Research and Economic Development Committee. Vice Chancellor Masucci spoke about the NSF survey report for FY2024. In the NSF report, which reports on the previous fiscal year, 10 out of 12 USM universities had enough research expenditures to qualify as a research institution by the Carnegie classifications model. Vice Chancellor Masucci highlighted that all USM institutions now report their research data to the Higher Education Research Development (HERD) survey. Vice Chancellor Masucci also briefly spoke about a joint house/senate committee mini-omnibus that would allow level-funding for most federal science and research agencies should it pass. Vice Chancellor Masucci ended by mentioning the upcoming Research and Economic Development Partners meeting sponsored by TEDCO on January 16, 2026, and the Trust in Science Symposium on March 27, 2026, at UMB's 4MLK building.
6. **Convene (action)** Regent Wood read the closing statement and opened the floor for a motion to adjourn.

(Regent Hasan moved recommendation, seconded by Regent Hur; approved)

Vote Count = Yeas: 6 Nays: 0 Abstentions: 0

The public meeting was adjourned at 11:21 p.m.

Respectfully submitted,

Committee Chair William Wood
Chair, Committee on Research and Economic
Development

Typical measures of research productivity used by institutions:

Publication Counts: The total number of peer-reviewed articles, books, or conference proceedings published.

Publication Citations: Publication count, citation frequency and total citations

Journal Impact Factor (JIF): A measure reflecting the yearly average number of citations to recent articles published in a specific journal.

Rates of Research Productivity: Research productivity and connectedness of scholars, teams

Fractional Scientific Strength: A measure that allocates credit for a publication based on author order, which helps in adjusting for co-authorship.

Funding/Grants: Total amount of research funding secured, number of grants received, research expenditures

Commercialization activity: Intellectual property (IP) developed and disclosed, patents received, licensed technology, revenue generated from IP

USM Tracks:

- Federal reporting of research expenditures to NSF HERD
- Reporting of commercialization to AUTM
- Recognitions of research excellence across institutions
- Carnegie classification designations

Higher Education Research and Development (HERD) Survey 2024

The HERD Survey is the primary source of information on research and development expenditures at U.S. colleges and universities.

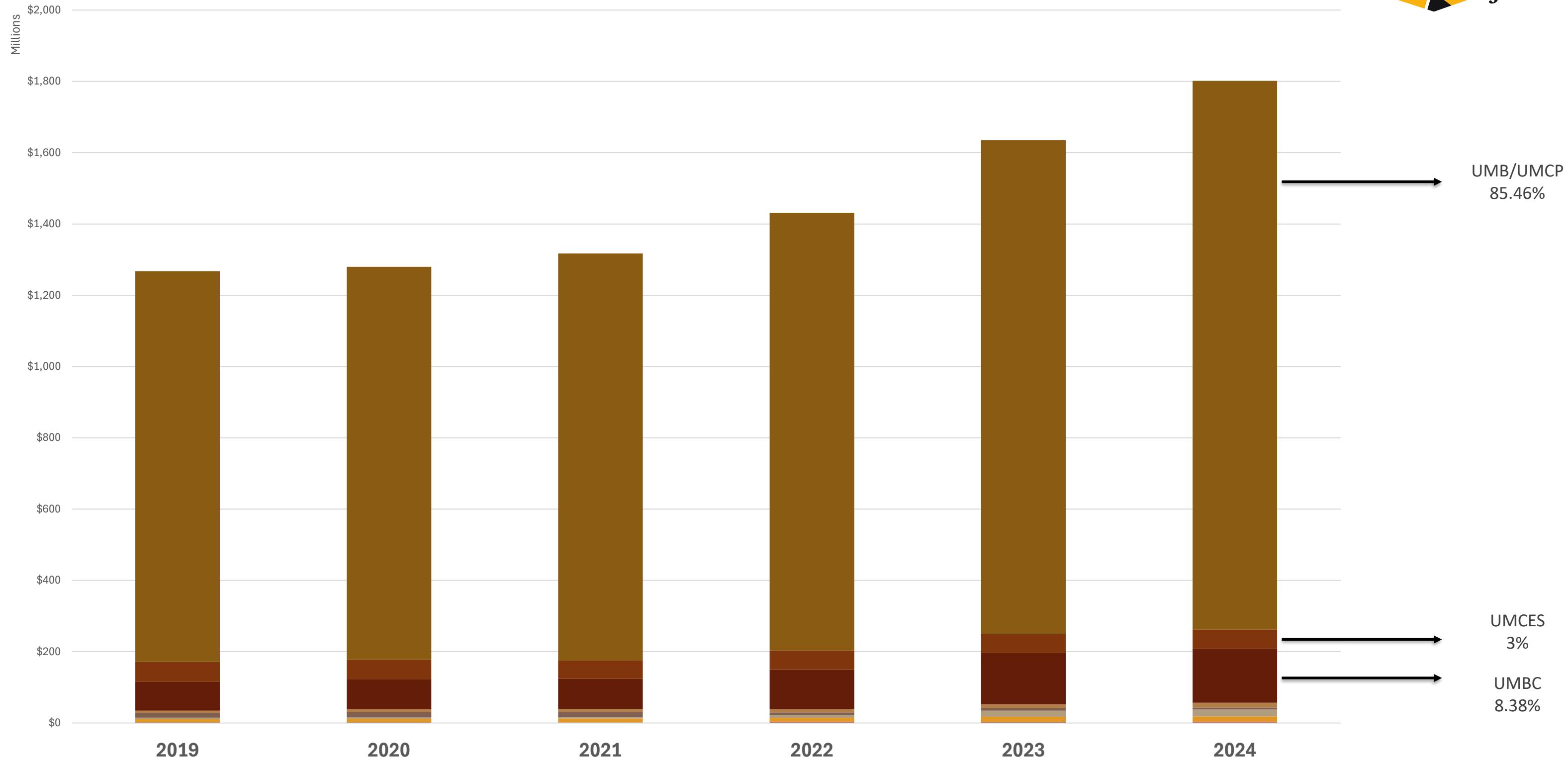
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Survey Administration

The FY 2024 survey was conducted by ICF under contract to the National Center for Science and Engineering Statistics.

<https://ncses.nsf.gov/surveys/higher-education-research-development/2024>

USM enterprise HERD expenditures 2019-2024



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- U. of Baltimore
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- Bowie State U.

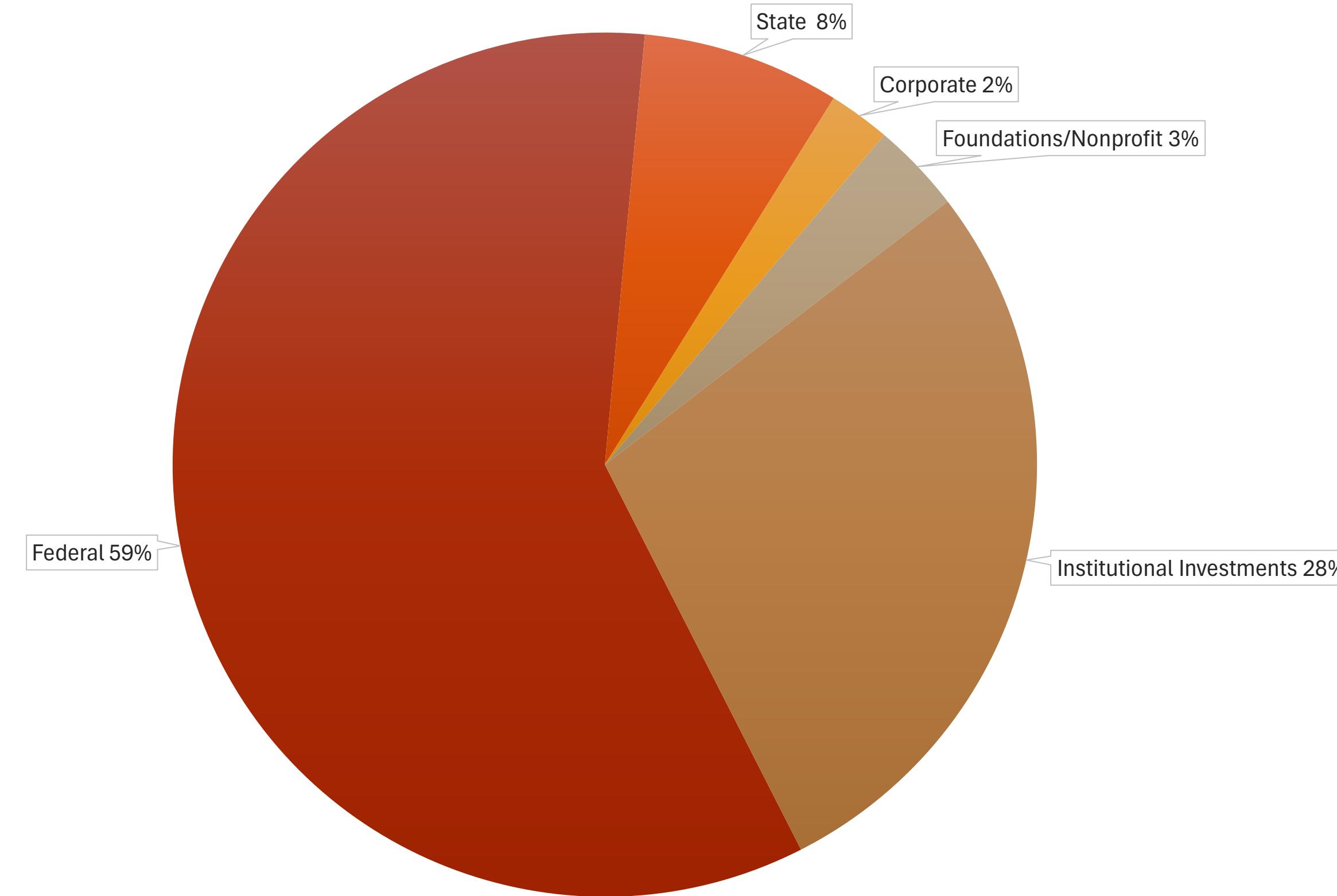
- U. of Maryland Center for Environmental Science
- U. of Maryland Eastern Shore
- Towson U.
- Coppin State U.

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U. of Maryland Eastern Shore	7,133,000	8,092,000	8,636,000	9,274,000	10,730,000	13,422,000
RESEARCH UNIVERSITIES						
U. of Maryland Baltimore County	80,632,000	83,867,000	84,418,000	110,319,000	144,262,000	150,908,000
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SELF REPORTING UNIVERSITIES						
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U. of Maryland Global Campus			204,336	278,053	274,042	568,596

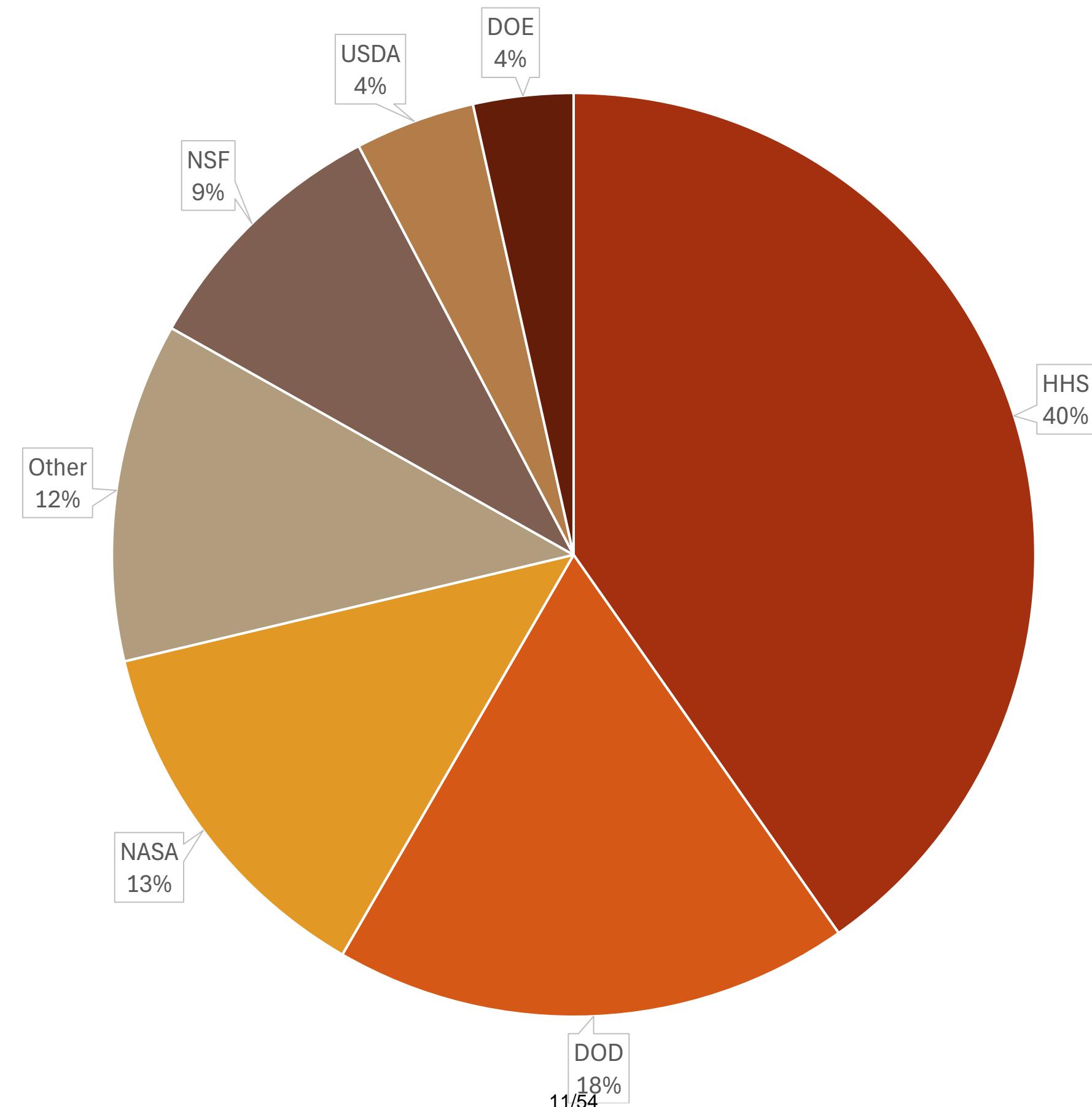
Institution	YoY Difference FY23 to FY24	FY24 HERD Ranking All Institutions	FY23 HERD Ranking All Institutions	FY24 HERD Ranking Public Institutions	FY23 HERD Ranking Public Institutions
Bowie State U.	+42.8%	↗510	531	↗341	360
Coppin State U.	-14.8%	↘869	841	↗499	-
Salisbury U.	-0.9%	↘335	331	↘245	242
Towson U.	+11.7%	↗315	319	↗230	235
U. of Baltimore	-12.4%	↘444	411	↘310	292
U of Maryland Eastern Shore	+25.1%	↗342	355	↗250	259
U. of Maryland (UMB & UMCP)	+11.1%	↗14	18	↗9	11
U. of Maryland Baltimore County	+4.6%	↘160	156	↘115	112
U. of Maryland Center for Environmental Science	+1.5%	↘232	223	↘166	160

Institution	FY24 Ranking by Federal Expenditures	FY23 Ranking by Federal Expenditures	NSF Ranking by Earned Doctorates	Earned Doctorates ¹
Bowie State U.	↗400	436	#402	13.3
Coppin State U.	-	-	-	-
Salisbury U.	↘362	355	-	-
Towson U.	↗356	380	#338	27.2
U. of Baltimore	↘410	372	-	-
U. of Maryland Eastern Shore	↗292	295	#366	21.1
U. Of Maryland (UMB & UMCP)	↘15	14	UMB: #176 UMCP: #22	62.2 95.5
U. of Maryland Baltimore County	↘143	140	#161	65.4
U. Of Maryland Center for Environmental Science	↘261	259	-	-

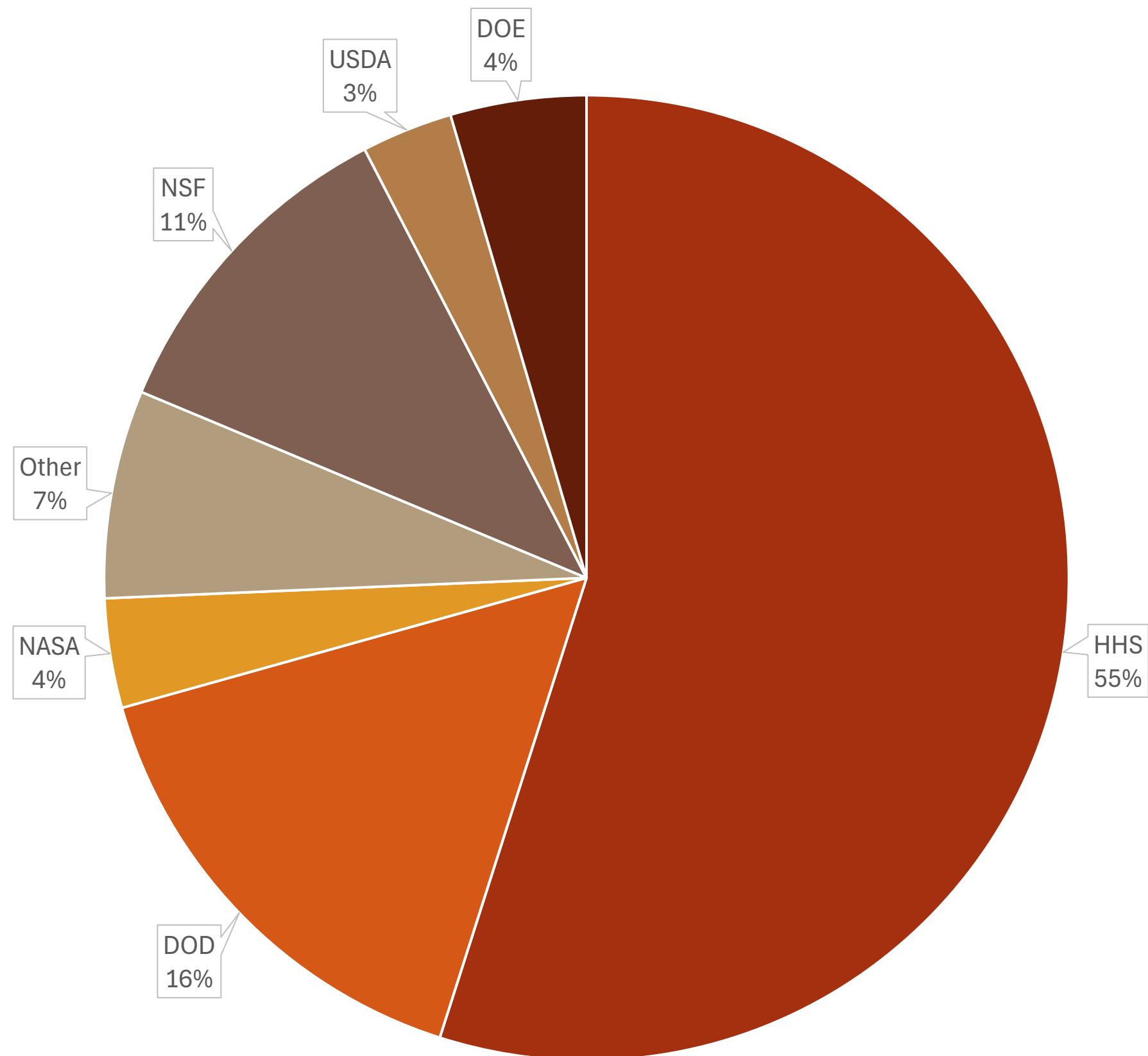
SNAPSHOTS FY2024 HERD: USM expenditures by funding source



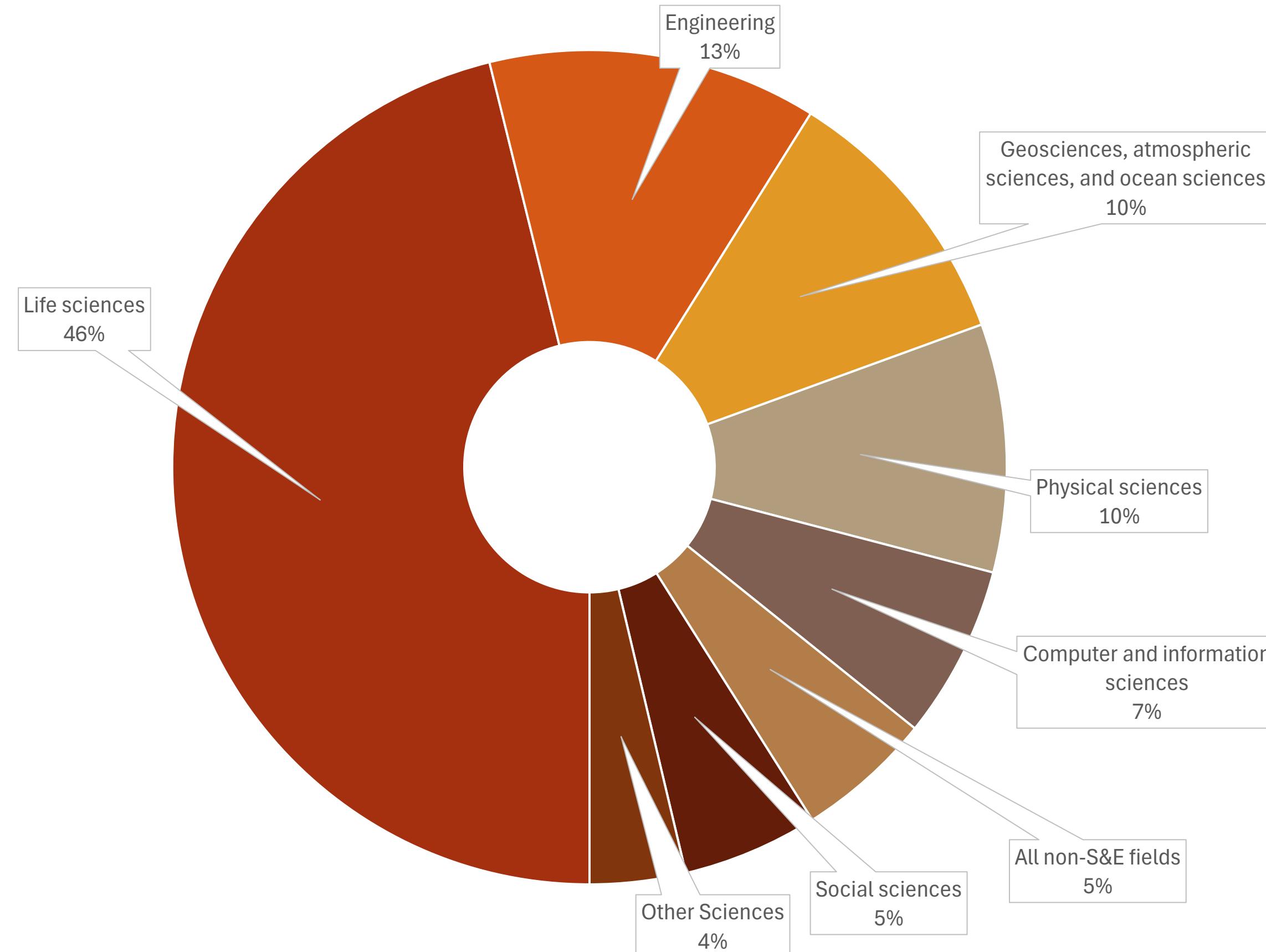
FY2024 HERD: USM Federal expenditures by Agency



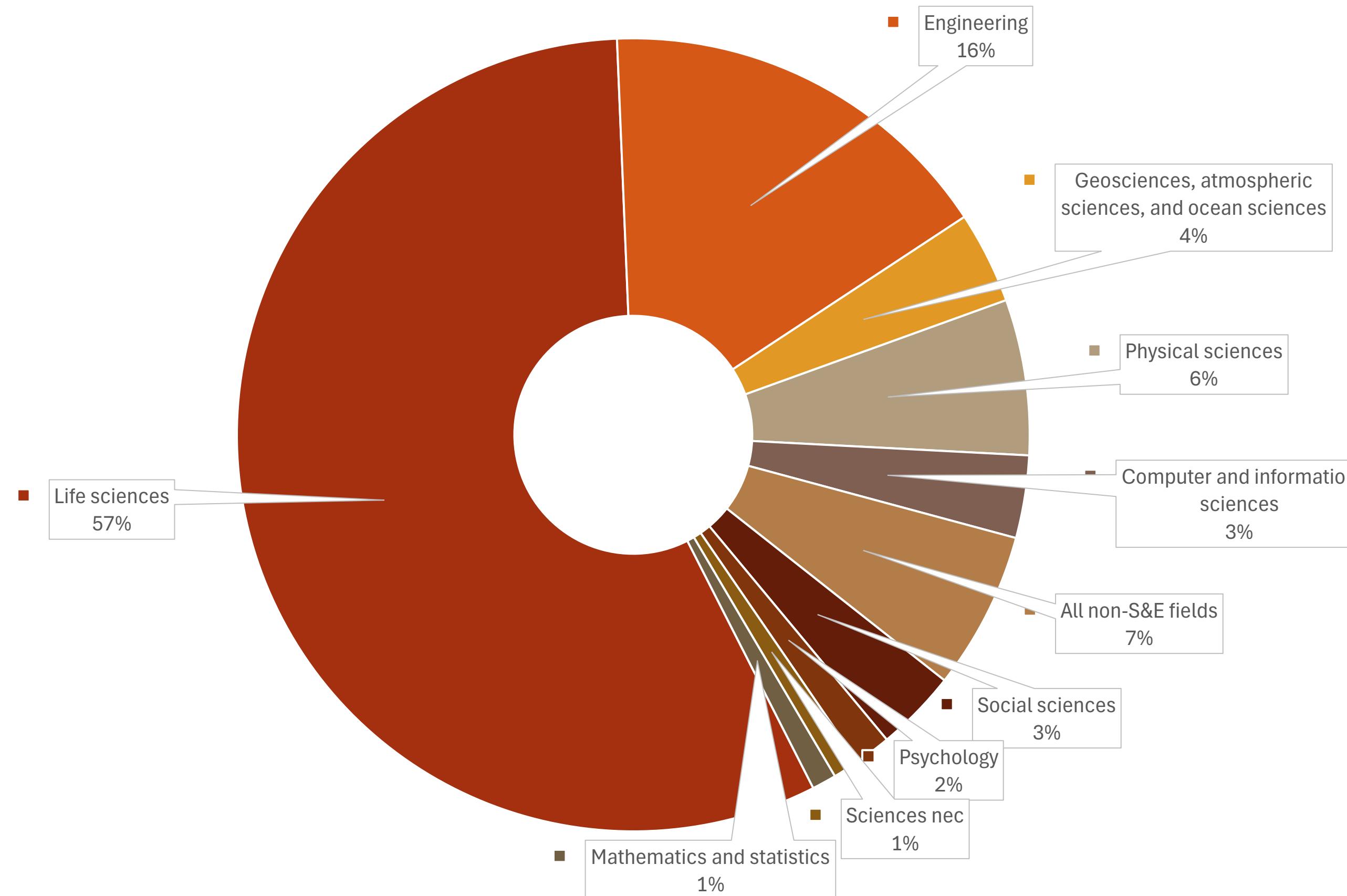
FY2024 HERD: All reporting institutions federal expenditures by agency

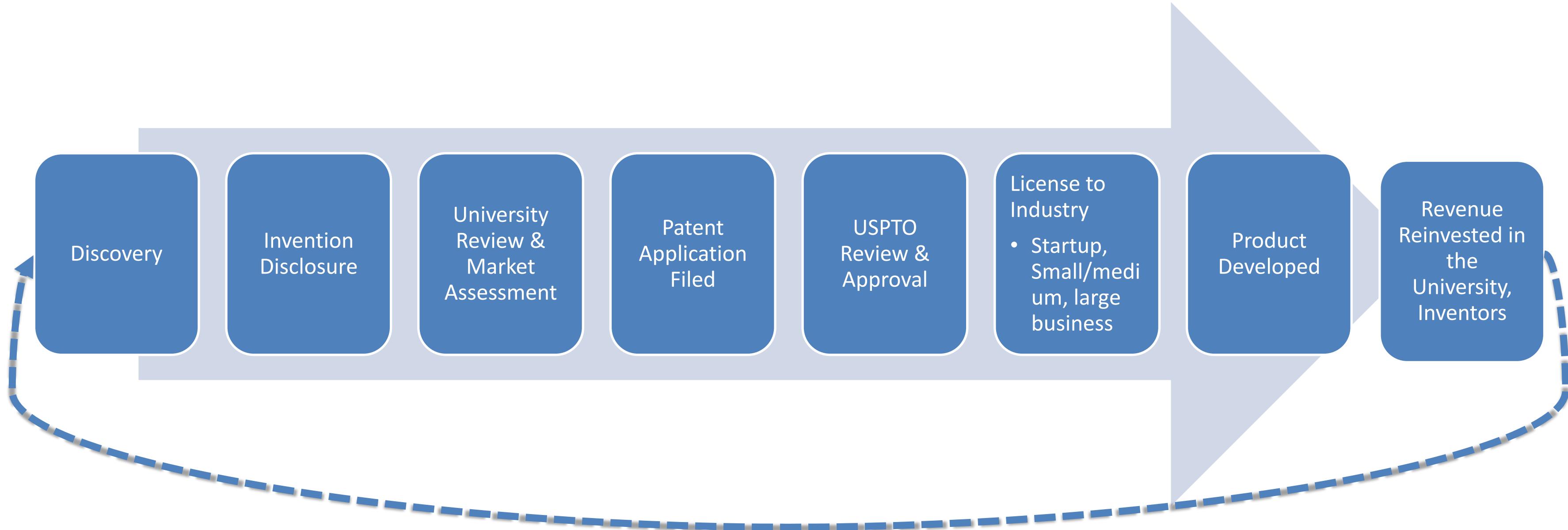


FY2024 HERD: USM expenditures by R&D Field



FY2024 HERD: All reporting institutions expenditures by R&D Field

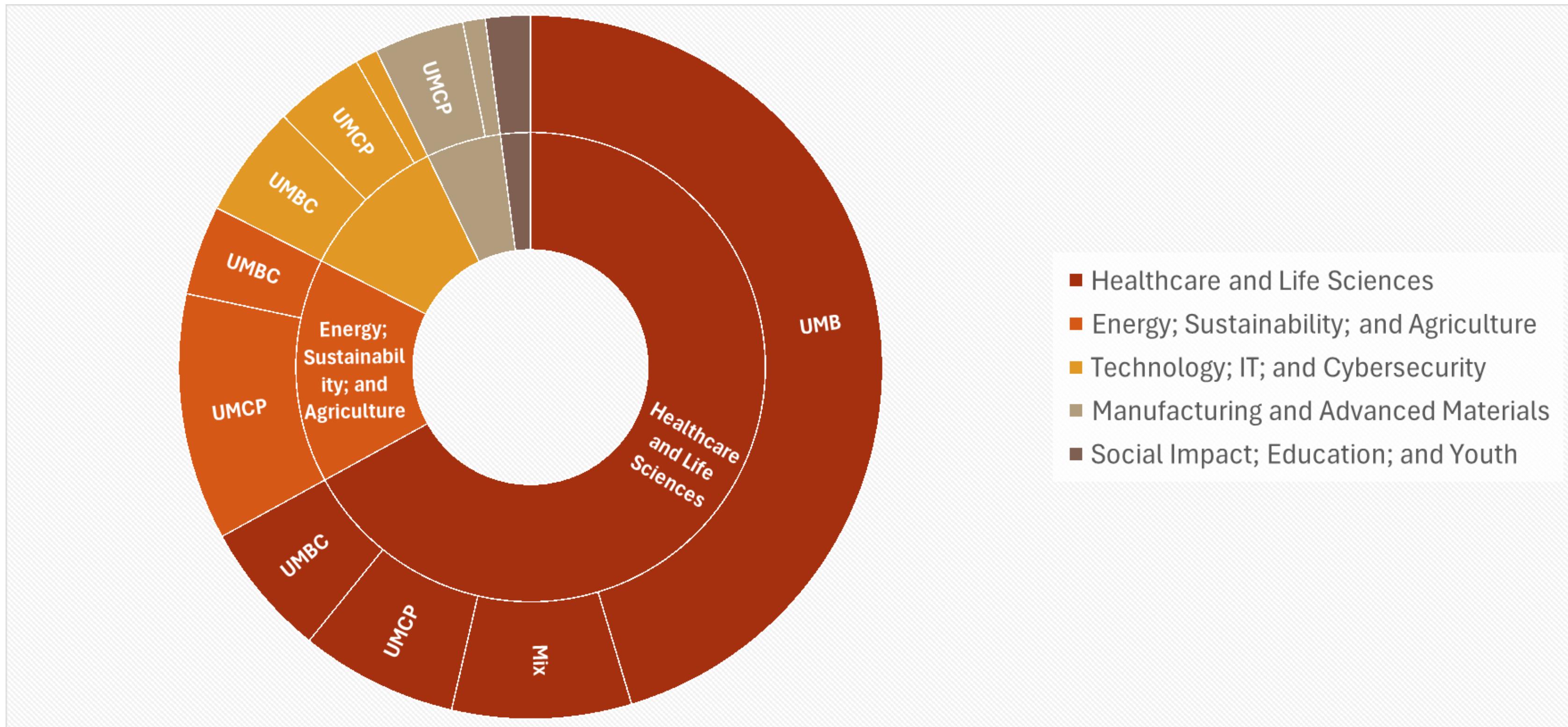




Licensing revenue is years in the making, after much risk and many checkpoints to ensure most effective allocation of resources.

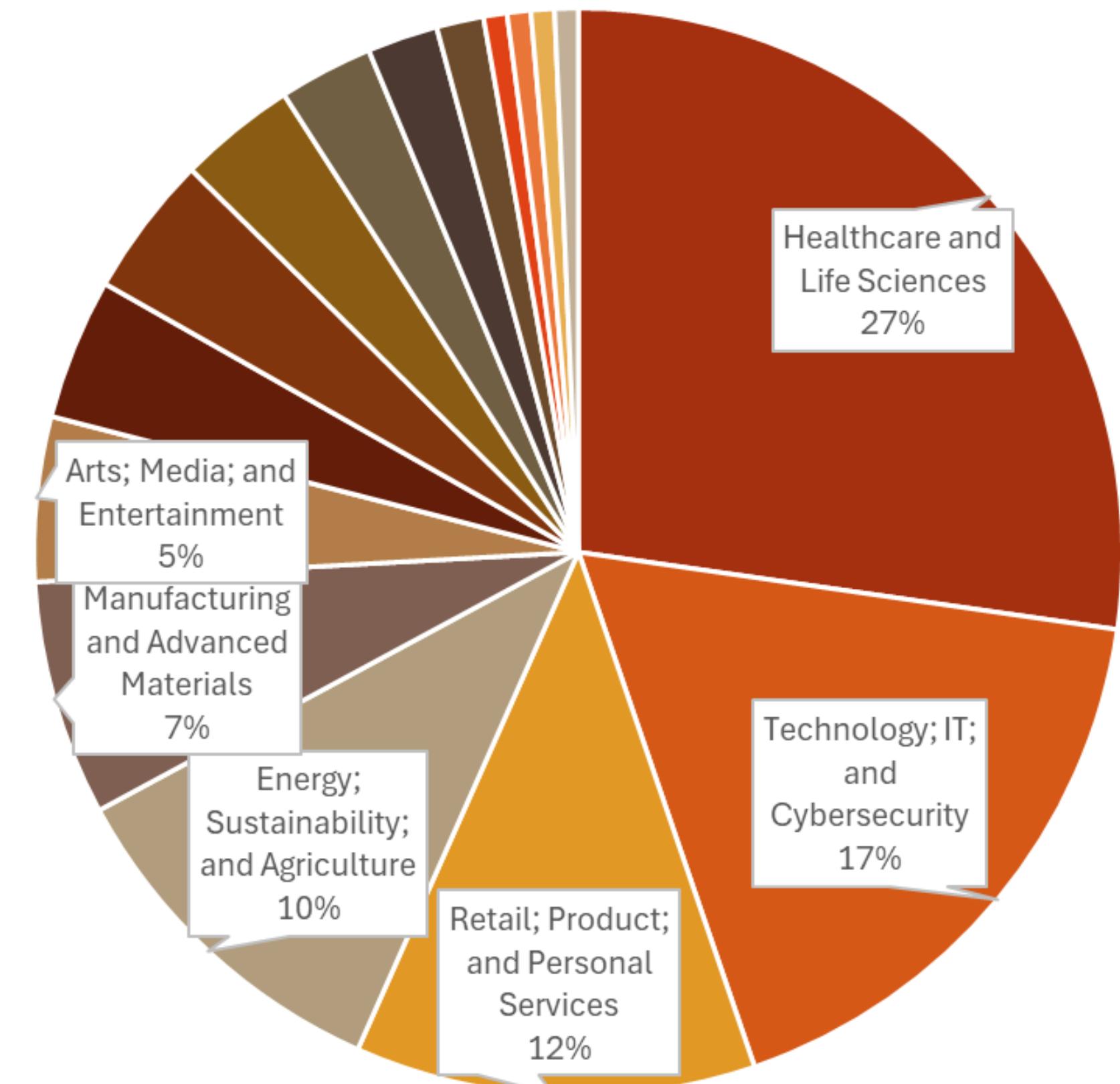
	Licenses and Options	Active Licenses	Gross License Income	Inventions Received	US Patent Applications Filed	Issued US Patents	IP Startups Formed
U. of Maryland College Park	16	195	\$1,673,056	110	49	28	7
U. of Maryland Baltimore	23	251	\$6,589,436	160	82	66	10
U. of Maryland Baltimore County	1	41	\$52,624	36	15	11	3
USM Total*	39	487	\$8,315,116	301	143	108	20

In calendar year 2025, USM ranked 11th among U.S. Public Universities in the National Academy of Inventors Worldwide Universities Granted U.S. Utility Patents List



Institution	Ventures Supported
Bowie State U.	10
Coppin State U.	0
Frostburg State U.	5
Salisbury U.	24
Towson U.	10
U. Of Baltimore	11
U. of Maryland Baltimore	27
U. Of Maryland College Park	86
U. Of Maryland Baltimore County	95
U. Of Maryland Center for Environmental Science	7
U. of Maryland Eastern Shore	0
U. of Maryland Global Campus	0
USM Office	11
USM Total*	180

Industries of Ventures Supported



*USM total is less than sum of institutions due to joint activity



NSF HERD Survey 2024

The flagship research institutions, UMB and UMD, are identified 14 for total R & D funds, 15 for Federal Funding; 9 for Public institutions



Times Higher Educational World University Rankings 2026

University of Maryland College Park is ranked 116th; UMBC is ranked in the 601-800th category based on teaching, research, citations, industry income, and international outlooks



Carnegie Classification of Institutions of Higher Ed

USM has 3 R1 designations and 7 Community Engagement Classified campuses



Webometrics Rankings

UMD 31 in US, 53 in world
UMBC 171 – US
Towson - 257
UMCES 317 – US
Salisbury – 426
UMES - 2822

Faculty Excellence in Research



NATIONAL ACADEMY
OF SCIENCES

19 members representing 3 USM universities



NATIONAL
ACADEMY
of MEDICINE

12 members representing 2 USM universities



NATIONAL ACADEMY
OF ENGINEERING

11 members representing 2 USM universities



21 members representing 2 USM universities

Faculty & Student Excellence in Research

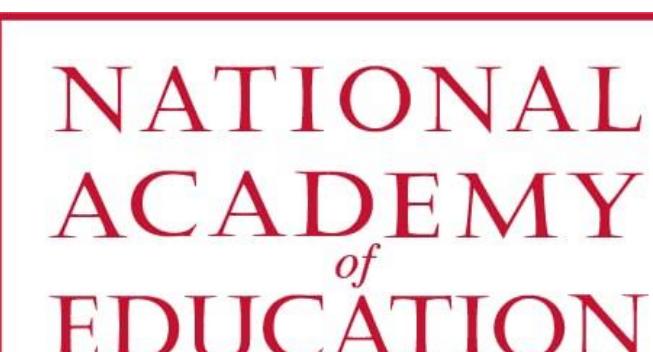


In 2025-26, 18 Fulbright U.S. Students &
8 Fulbright U.S. Scholars



AMERICAN ACADEMY
OF ARTS & SCIENCES

19 members elected from 2 USM universities



6 members elected from 2 USM universities



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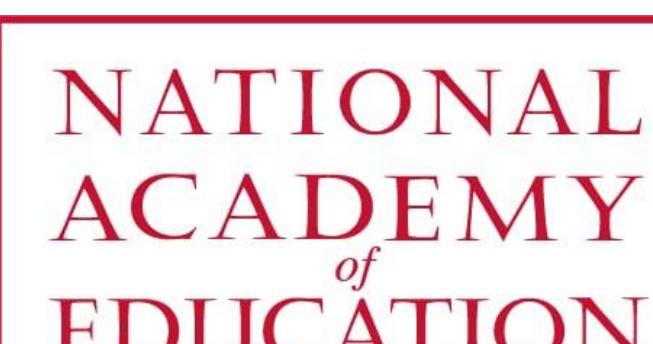


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Office of the Vice Chancellor for Research and Economic Development

**Advancing USM Preeminence through
Research and Economic Development**

**Board of Regents Committee on Research and Economic
Development**

Michele Masucci, Lindsay Ryan, Julia Chadwick

Feb 20, 2026





Agenda

1. Action Item: Minutes Approval – Regent Bill Wood
2. Advancing Research Excellence Across the USM – Michele Masucci
3. Metrics for Research and Economic Development – Julia Chadwick and Lindsay Ryan
4. Metrics as a Driver of Impact – Michele Masucci, Julia Chadwick and Lindsay Ryan
5. Discussion Topics
 - a) Economic Impacts of Research
 - b) Research and Economic Development Lab Visits over the Summer
 - c) Research and Economic Development Policies

USM Policy and Reporting

Management of BOR Research and Economic Development Committee, reporting metrics for research and development to USM, convening shared governance entities connected to R&D, oversight of USM policies related to research and commercialization

USM Research, Commercialization, and Compliance Administration

Provide support and guidance to the USM and its institutions on grant submission, management, compliance, opportunities, research security, protection of intellectual property, and reporting requirements

USM-Wide Extension Programs

Provide guidance, technical support, and advocacy for USM and statewide research and economic development programs that support investigators, research staff, innovators, entrepreneurs, and economic development

Convene and Connect

Fostering collaboration across stakeholder groups in research, community, industry, and system institutions related to research, innovation, economic development, and research regulatory affairs

Program Development

Supporting research and economic development communities in MD

Knowledge

Scholarship

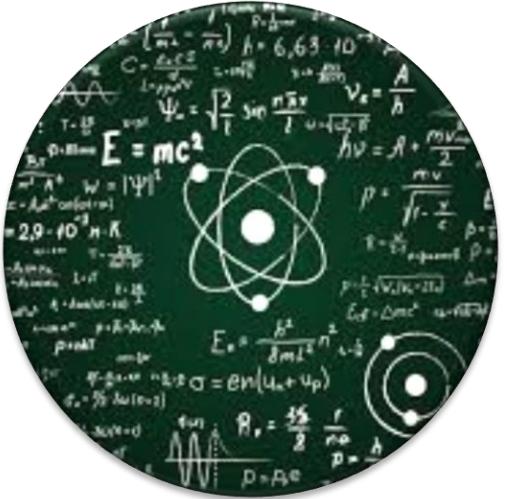
Creative Works

Applied Research

Discovery & Innovation

Knowledge Transfer

Impacts



Advancing growth in externally sponsored research and creative activities-



Supporting growth in purpose-driven, mission research programs and collaborations



Fostering a culture of discovery, innovation, scholarship, and creative work



Advancing intellectual property through patents, licenses, and startups



Fostering economic, workforce, and societal impacts

Context for Research Development:

Rapid Growth in advancement of Science and Complexity in Research Administration

Data Driven Discovery:

Rapid growth in fields like AI, Biotech, Nanotech, Quantum, Environmental engineering, Neuro-brain interfaces, Advanced materials

Rapidly changing needs for the pace of scientific change:

Massive data storage; high throughput, distributed, edge and cloud computing; systems interoperability needs

Challenges Associated with Changes:

Need for interoperability standards, data security and privacy, ethical and regulatory frameworks to reflect evolving science

Requirements:

Investments in R & D, accessibility to scientific knowledge, global collaboration and competition, regulation of emerging tech, open science, education

EXAMPLES OF RAPIDLY EMERGING DIRECTIONS IN SCIENTIFIC RESEARCH

ADMINISTRATION ROLES AND REQUIREMENTS CONNECTED TO ACHIEVING SCIENTIFIC GOALS

Federal Agency: Workforce, complex interface with institutions of higher education, interagency inconsistencies, funding to manage priorities, regulations to manage risks

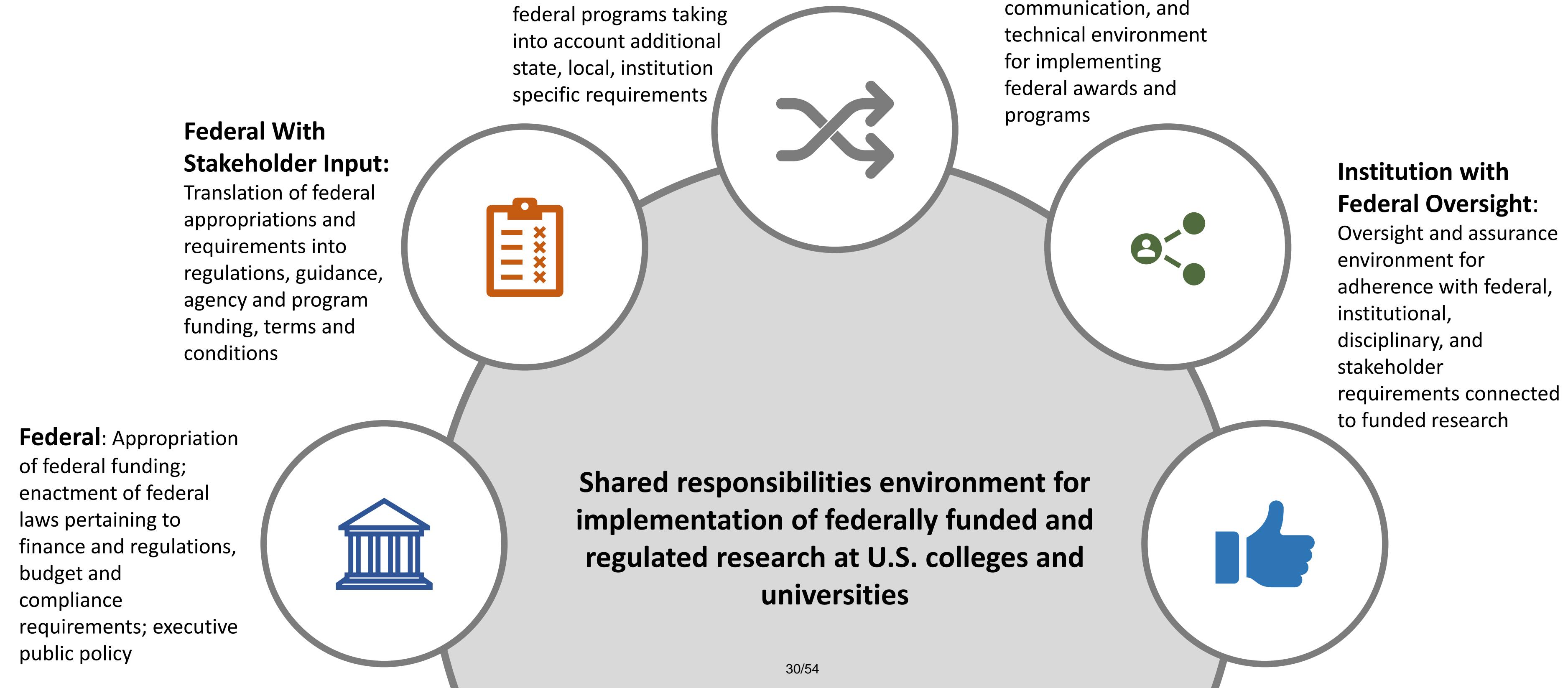
Institutions: Administrative burden of requirements, workforce issues, complex regulatory environment for higher education sector

Investigators: Rapid pace of the advancement of science, challenging pipeline of students and trainees, increased service demands at universities, complexity of managing team science

Commercial and Industry Partners: Lack of capital at early stages of development, challenge of converting IP into innovation and solutions, dominance of large-scale industry

Administration of Federal Funding for Research:

Primary driver for Shared Stakeholder Responsibilities



1. Alignment

Align areas of USM Research Strengths with National Priorities

2. Environmental Science

Advance our leadership in environmental sciences and deepen our international reputation for climate change and sustainability research

3. Community Research

Expand community-based research to strengthen the neighborhoods, towns, and cities where our universities are based

4. Collaborative Research

Grow the number of cross-institutional, interdisciplinary, and inter-professional research collaborations among USM institutions and Centers

5. Strategic Partnerships

Grow the number of research partnerships with industry, agencies, NGOS, and academic institutions, domestically and internationally.

6. Funding Diversification

Diversify and expand our research portfolio, attracting private-sector investment for basic research.

7. Research for Social Good

Develop a nationally significant research initiative on diversity, equity, and justice; globalization; and sustainability, examining the role that race, identity, and systemic racism may play in them.



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Convene and Connect

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Program Development

Supporting research and economic development communities in MD

Identify and pursue funding opportunities

Foster and develop research collaborations and partnerships

Enhance USM opportunities:
Research alignment, impact, outcomes
R & D workforce pipelines

Collaborative programs and projects across the USM
Industry partnership to support R & D

Strengthen technology transfer efforts

Enhance philanthropic engagement for R & D

- **Research and Economic Development Partners** - USM OVCRED's largest group/convening; including USM professionals in the fields of research strategy and development, grants administration, commercialization, economic development, workforce development, and more to connect, collaborate, learn, and plan. All institutions participate. (Bi-annual in person)
- **Research and Economic Development Community of Practice** - Development professionals from universities or centers with growing entrepreneurial ecosystems. BSU, SU, UBalt, UMES, FSU, UMCES, and CSU participate. (As needed)
- **System Research Administrators Group** - Sponsored Programs pre-award and post-award representatives to exchange information and ideas, collaborate on those issues which impact grant administration, and share best practices to support research and scholarly activities; supports all institutions. (Quarterly in person)
- **Conflict of Interest and Commitment Leaders** – Administrators of research COI professionals from research universities, supports all institutions. (Quarterly in person)
- **NEW in 2024: USM Innovation Collaborative** – Leaders of venture funds, investment programs, and technical support programs for research commercialization, innovation, and startup initiatives, supports all institutions. (As needed)
- **NEW in 2025: Vice Presidents for Research/Research leaders** – Named Vice Presidents or senior leaders responsible for alignment of research across a university and R & D Development and Strategy (Weekly – virtually, Annual in person)
- **New in 2026: Research Advisory Council** – Industry, Philanthropy, Policy and Education Leaders providing input on National trends in R & D landscape

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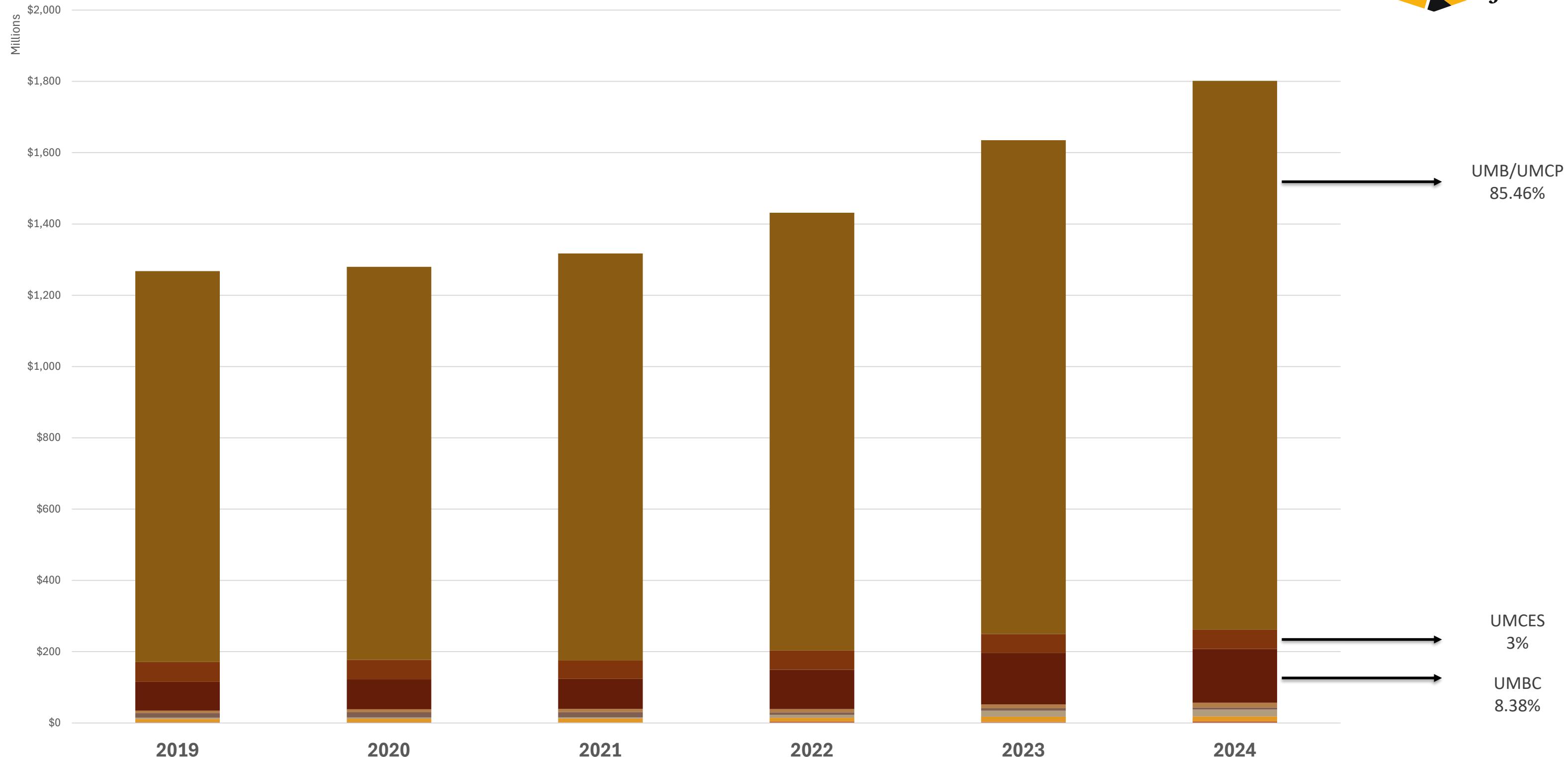
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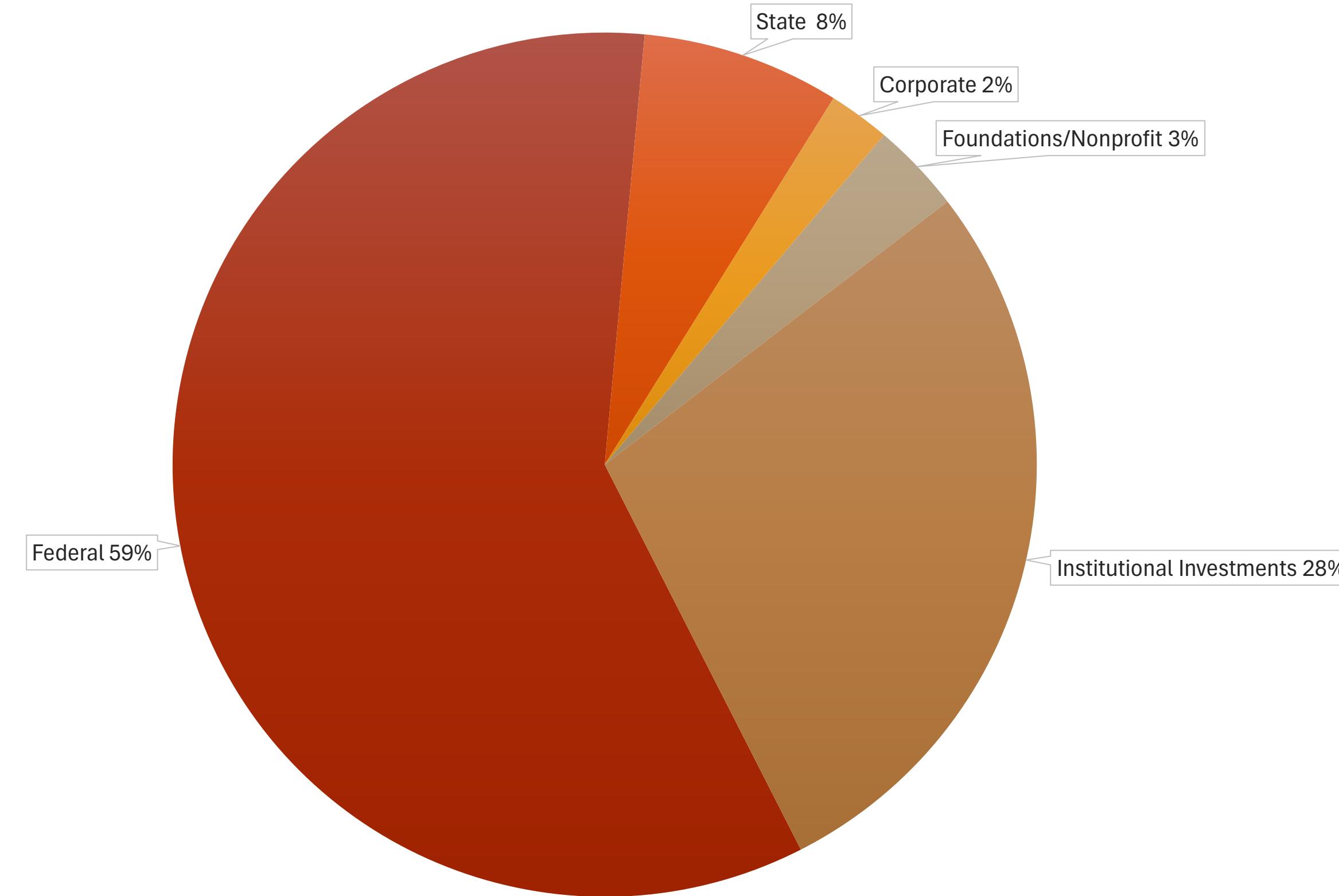


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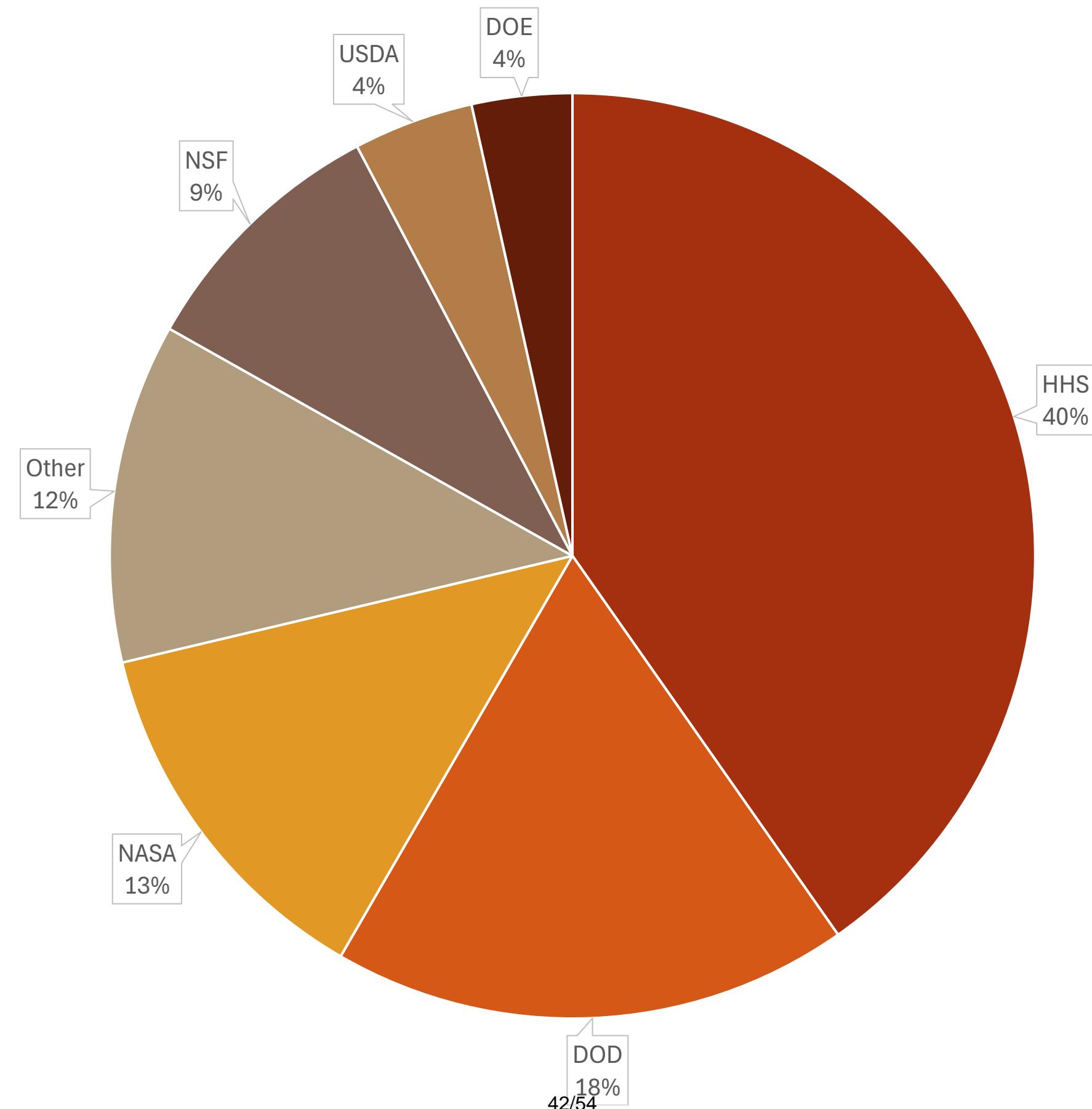
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Salisbury U.	-0.9%	↘335	331	↘245	242
Towson U.	+11.7%	↗315	319	↗230	235
U. of Baltimore	-12.4%	↘444	411	↘310	292
U of Maryland Eastern Shore	+25.1%	↗342	355	↗250	259
U. of Maryland (UMB & UMCP)	+11.1%	↗14	18	↗9	11
U. of Maryland Baltimore County	+4.6%	↘160	156	↘115	112
U. of Maryland Center for Environmental Science	+1.5%	↘232	223	↘166	160

Institution	FY24 Ranking by Federal Expenditures	FY23 Ranking by Federal Expenditures	NSF Ranking by Earned Doctorates	Earned Doctorates ¹
Bowie State U.	↗400	436	#402	13.3
Coppin State U.	-	-	-	-
Salisbury U.	↘362	355	-	-
Towson U.	↗356	380	#338	27.2
U. of Baltimore	↘410	372	-	-
U. of Maryland Eastern Shore	↗292	295	#366	21.1
U. Of Maryland (UMB & UMCP)	↘15	14	UMB: #176 UMCP: #22	62.2 95.5
U. of Maryland Baltimore County	↘143	140	#161	65.4
U. Of Maryland Center for Environmental Science	↘261	259	-	-

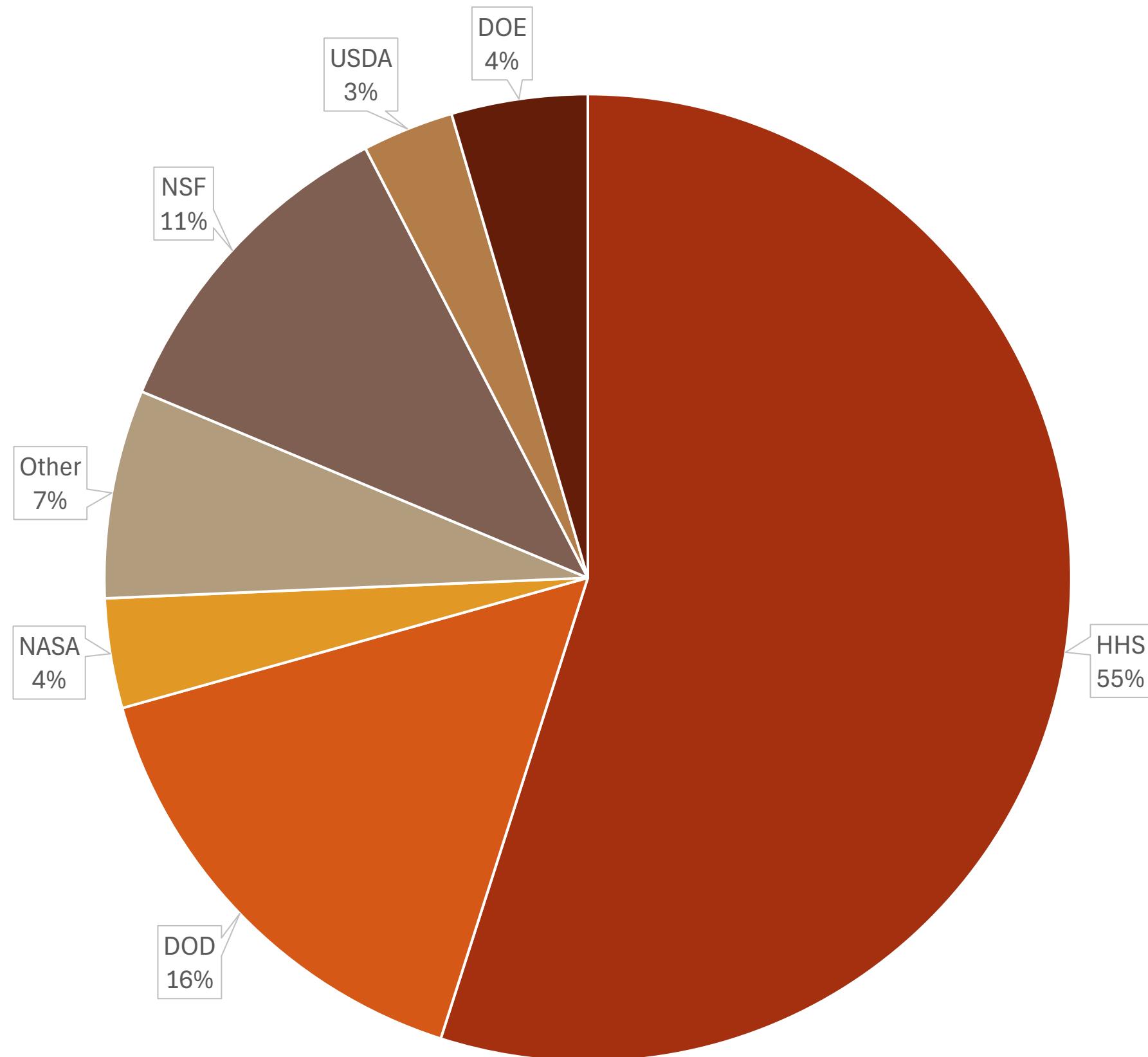
SNAPSHOTS FY2024 HERD: USM expenditures by funding source



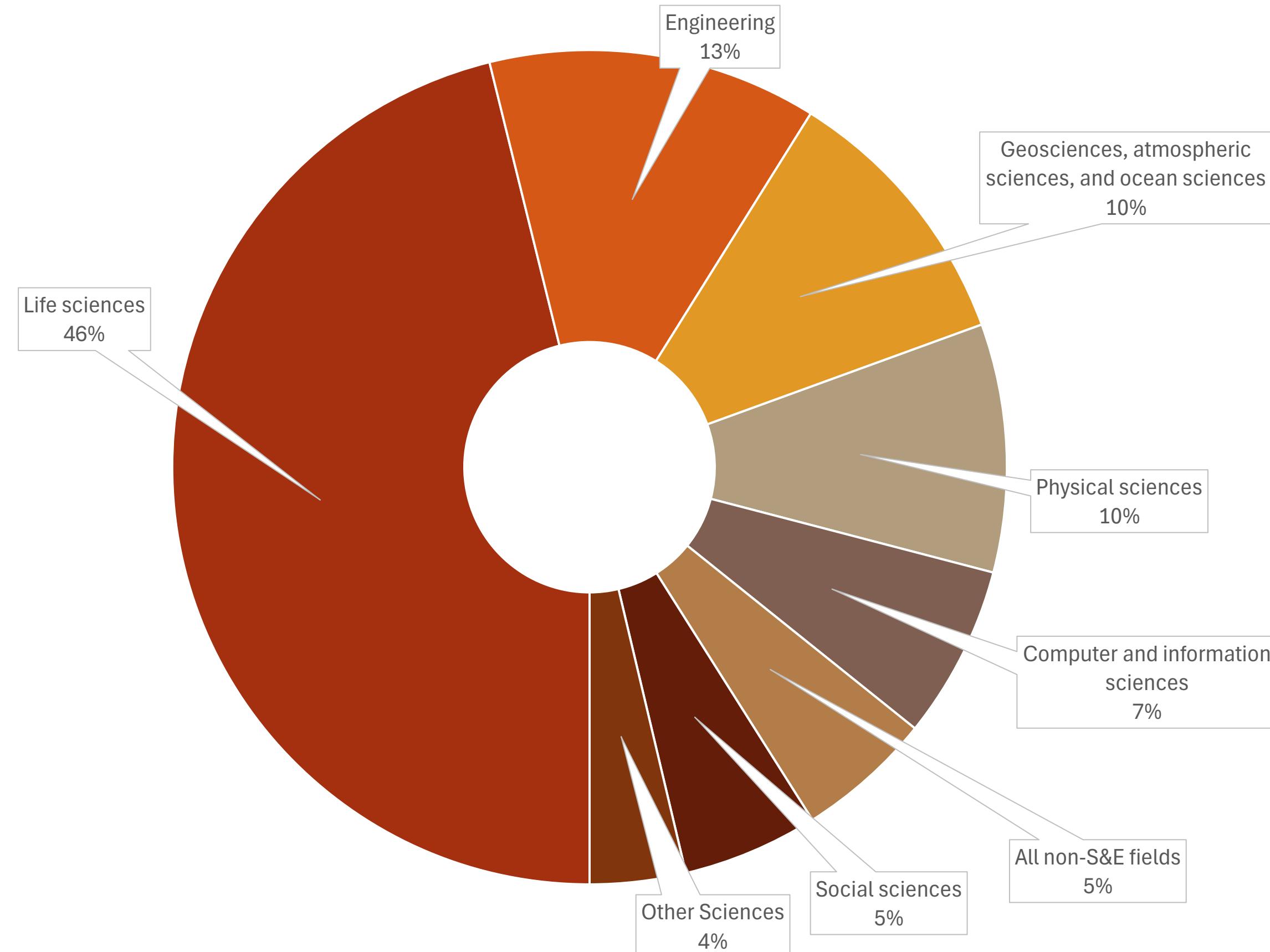
FY2024 HERD: USM Federal expenditures by Agency



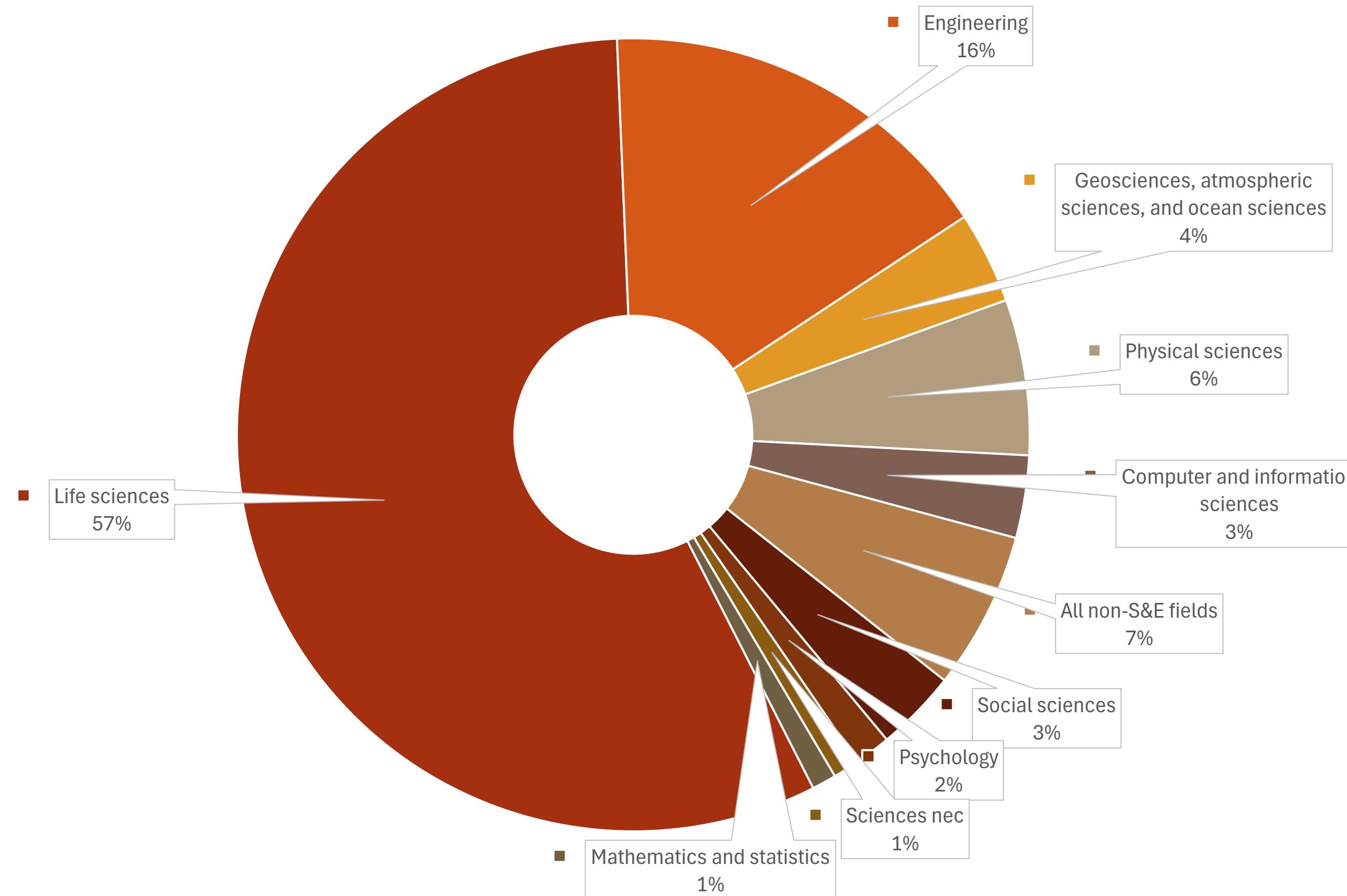
FY2024 HERD: All reporting institutions federal expenditures by agency

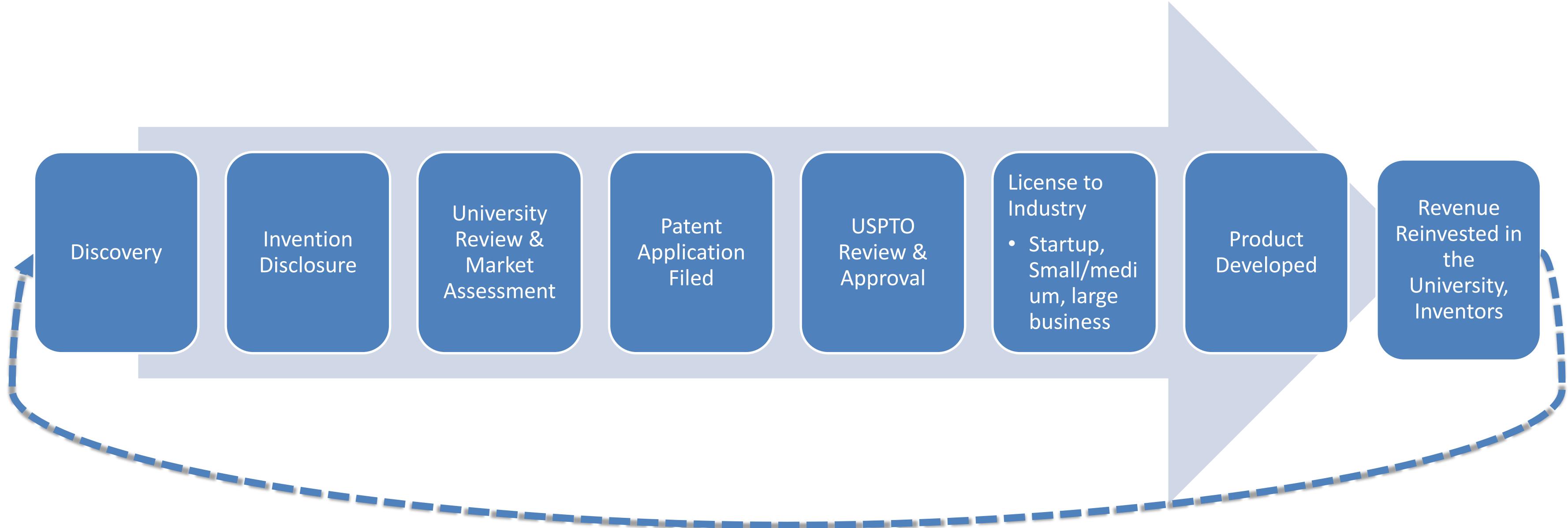


FY2024 HERD: USM expenditures by R&D Field



FY2024 HERD: All reporting institutions expenditures by R&D Field

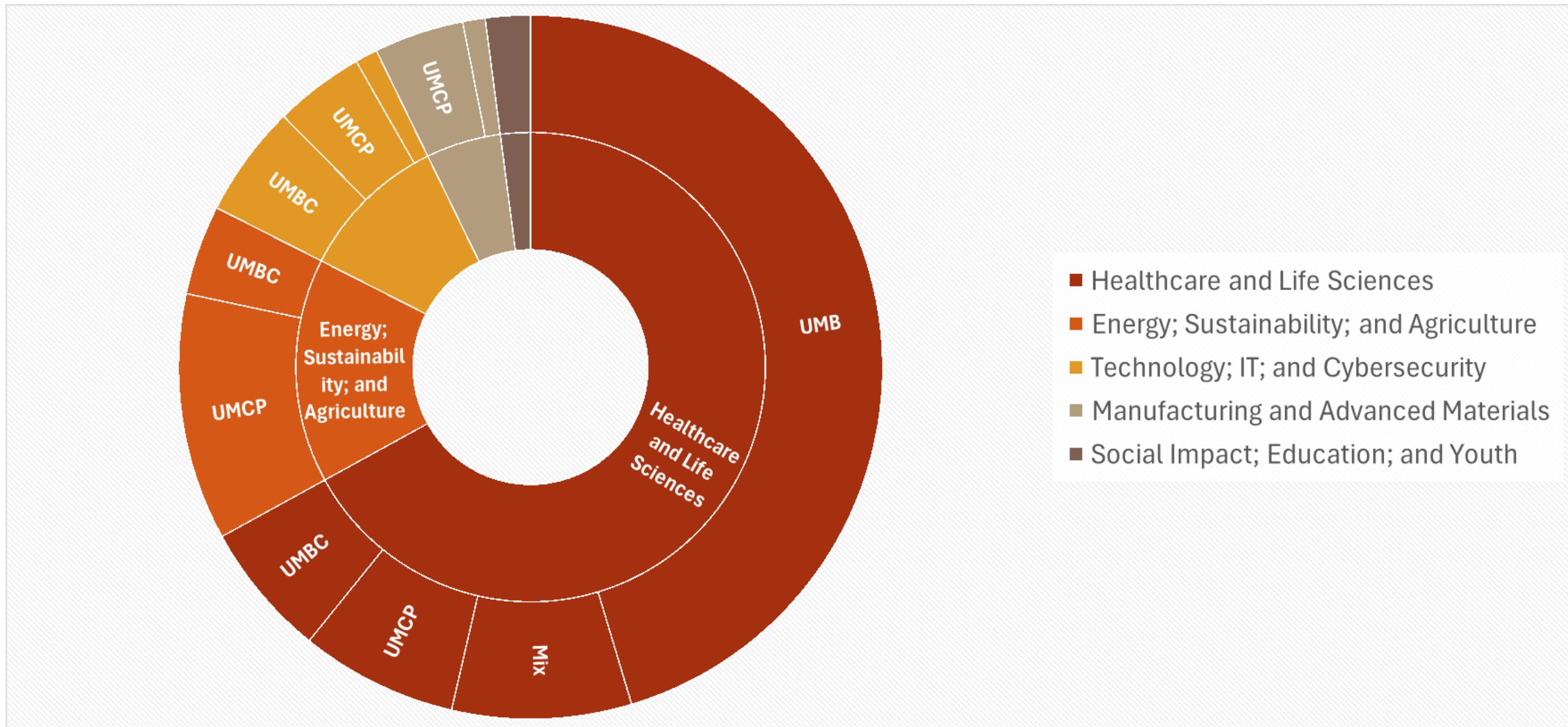




Licensing revenue is years in the making, after much risk and many checkpoints to ensure most effective allocation of resources.

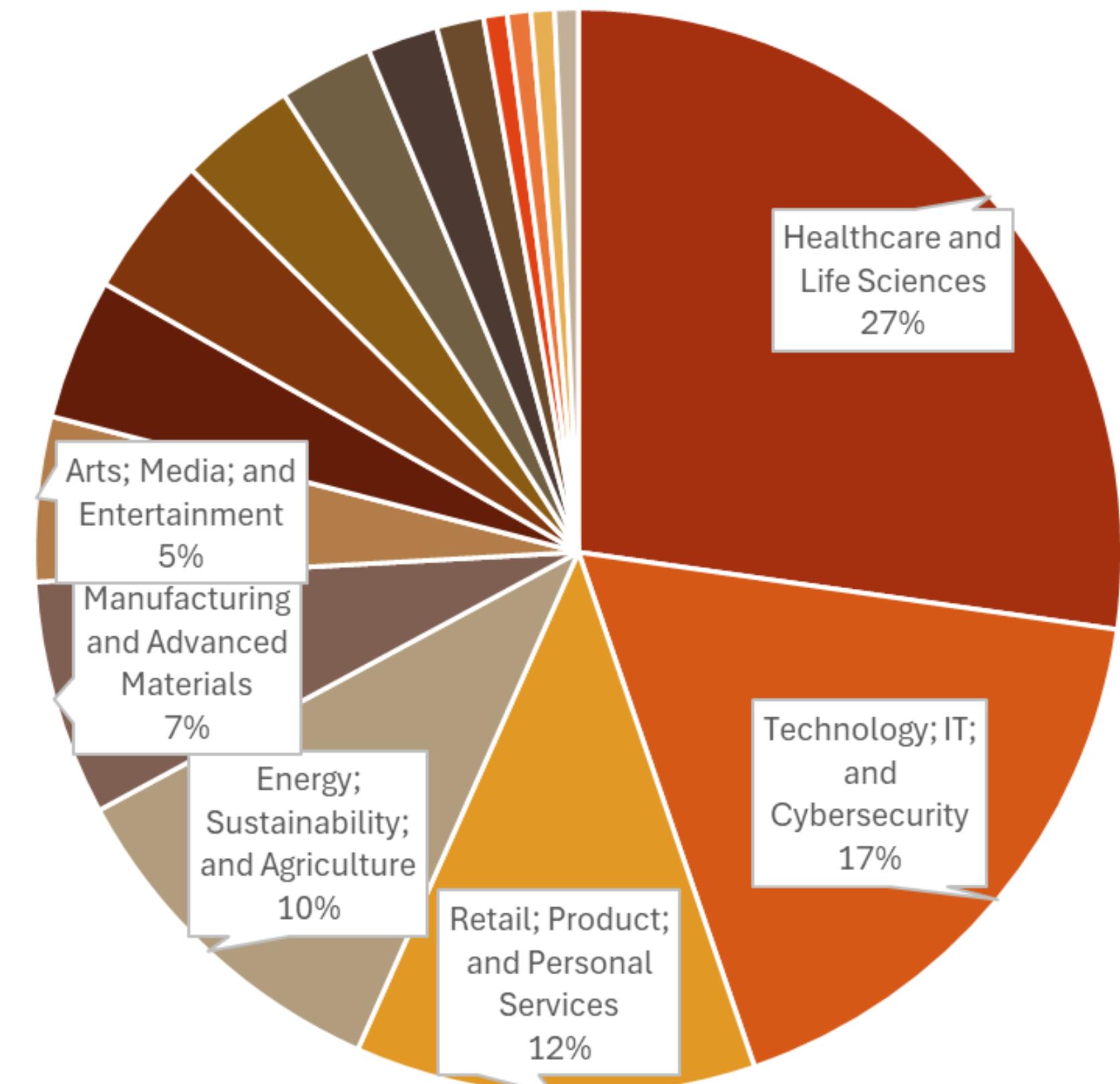
	Licenses and Options	Active Licenses	Gross License Income	Inventions Received	US Patent Applications Filed	Issued US Patents	IP Startups Formed
U. of Maryland College Park	16	195	\$1,673,056	110	49	28	7
U. of Maryland Baltimore	23	251	\$6,589,436	160	82	66	10
U. of Maryland Baltimore County	1	41	\$52,624	36	15	11	3
USM Total*	39	487	\$8,315,116	301	143	108	20

In calendar year 2025, USM ranked 11th among U.S. Public Universities in the National Academy of Inventors Worldwide Universities Granted U.S. Utility Patents List



Institution	Ventures Supported
Bowie State U.	10
Coppin State U.	0
Frostburg State U.	5
Salisbury U.	24
Towson U.	10
U. Of Baltimore	11
U. of Maryland Baltimore	27
U. Of Maryland College Park	86
U. Of Maryland Baltimore County	95
U. Of Maryland Center for Environmental Science	7
U. of Maryland Eastern Shore	0
U. of Maryland Global Campus	0
USM Office	11
USM Total*	180

Industries of Ventures Supported



*USM total is less than sum of institutions due to joint activity



NSF HERD Survey 2024

The flagship research institutions, UMB and UMD, are identified 14 for total R & D funds, 15 for Federal Funding; 9 for Public institutions



Times Higher Educational World University Rankings 2026

University of Maryland College Park is ranked 116th; UMBC is ranked in the 601-800th category based on teaching, research, citations, industry income, and international outlooks



Carnegie Classification of Institutions of Higher Ed

USM has 3 R1 designations and 7 Community Engagement Classified campuses



Webometrics Rankings

UMD 31 in US, 53 in world
UMBC 171 – US
Towson - 257
UMCES 317 – US
Salisbury – 426
UMES - 2822

Faculty Excellence in Research



NATIONAL ACADEMY
OF SCIENCES

19 members representing 3 USM universities



NATIONAL
ACADEMY
of MEDICINE

12 members representing 2 USM universities



NATIONAL ACADEMY
OF ENGINEERING

11 members representing 2 USM universities



21 members representing 2 USM universities

Faculty & Student Excellence in Research

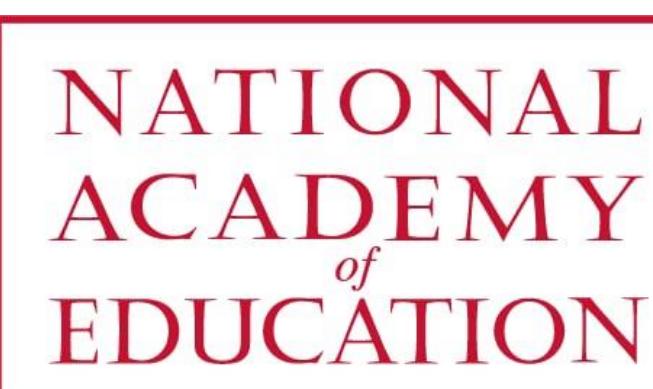


In 2025-26, 18 Fulbright U.S. Students &
8 Fulbright U.S. Scholars



AMERICAN ACADEMY
OF ARTS & SCIENCES

19 members elected from 2 USM universities



6 members elected from 2 USM universities

- a) Economic Impacts of Research
- b) Research and Economic Development Lab Visits over the Summer
- c) Research and Economic Development Policies (see list that follows)

1. Research, Commercialization and Economic Development related policies at USM

Policy for the Establishment and Review of Centers and Institutes in the University System of Maryland	IV-1.00 (PDF Download)
Policy on Solicitation and Acceptance of Sponsored Projects	IV-2.00
Policy on Human Subjects of Research	IV-2.10 (PDF Download)
Policy on Classified and Proprietary Work	IV-2.20 (PDF Download)
Policy on Patents	IV-3.00 (PDF Download)
Policy on Copyrights <i>For works copyrighted before July 1, 2002</i>	IV-3.10
Policy on Intellectual Property <i>For works copyrighted on or after July 1, 2002</i>	IV-3.20 (PDF Download)

2. Related faculty affairs policies

Policy on Misconduct in Scholarly Work	III-1.10 (PDF Download)
Policy on Conflicts of Interest in Research and Development	III-1.11 (PDF Download)

3. Potential new policies or guidelines

Research Security
Export Control