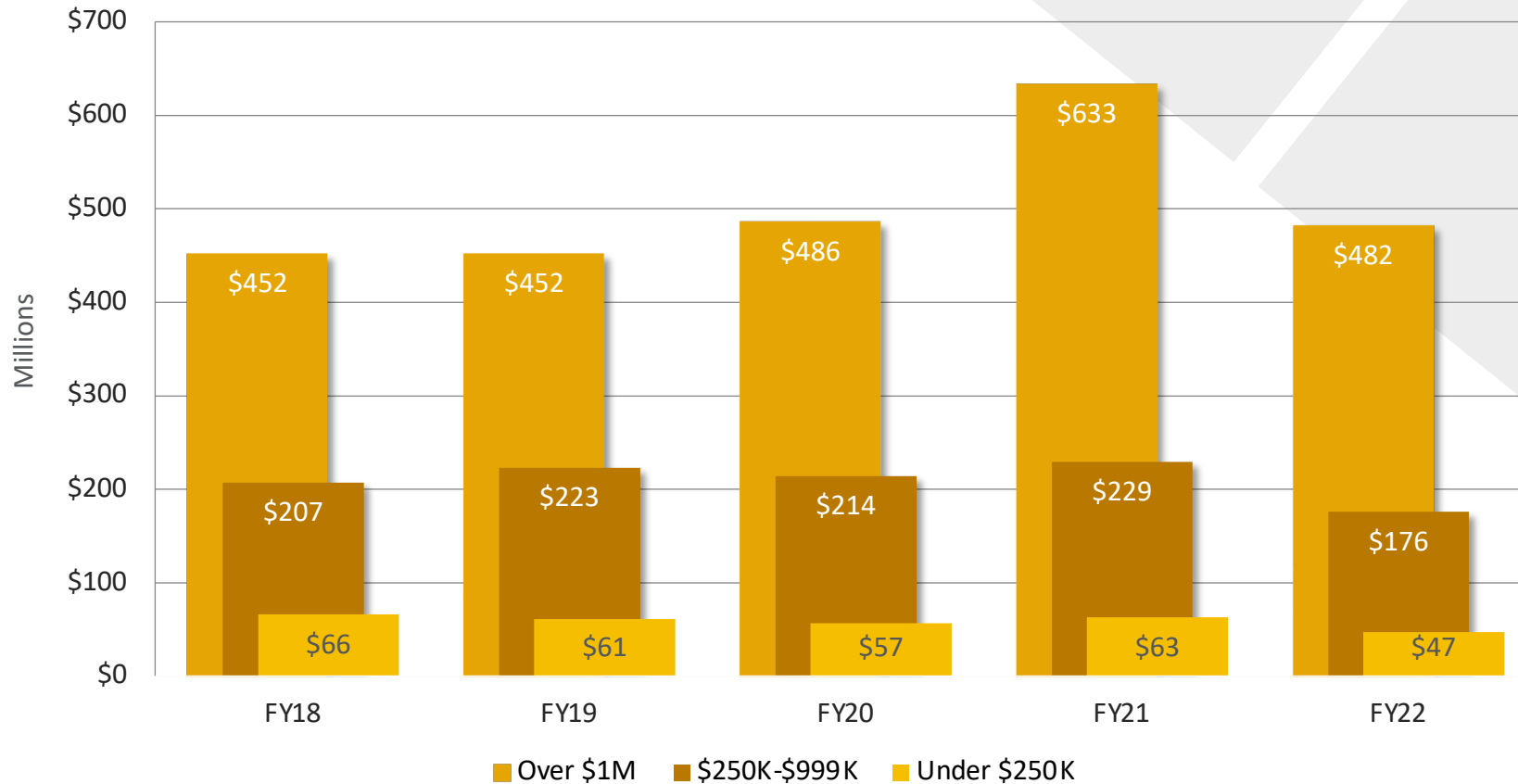The University of Houston
is on the move

Total Expenditure – NSF Reported

Total R&D Expenditures by Source

Total Funds Requested

	FY18	FY19	FY20	FY21	FY22
Over $1M	$452	$452	$486	$633	$482
$250K-$999K	$207	$223	$214	$229	$176
Under $250K	$66	$61	$57	$63	$47

Millions

■ Over $1M   ■ $250K-$999K   ■ Under $250K

Division of Research
UNIVERSITY OF **HOUSTON**
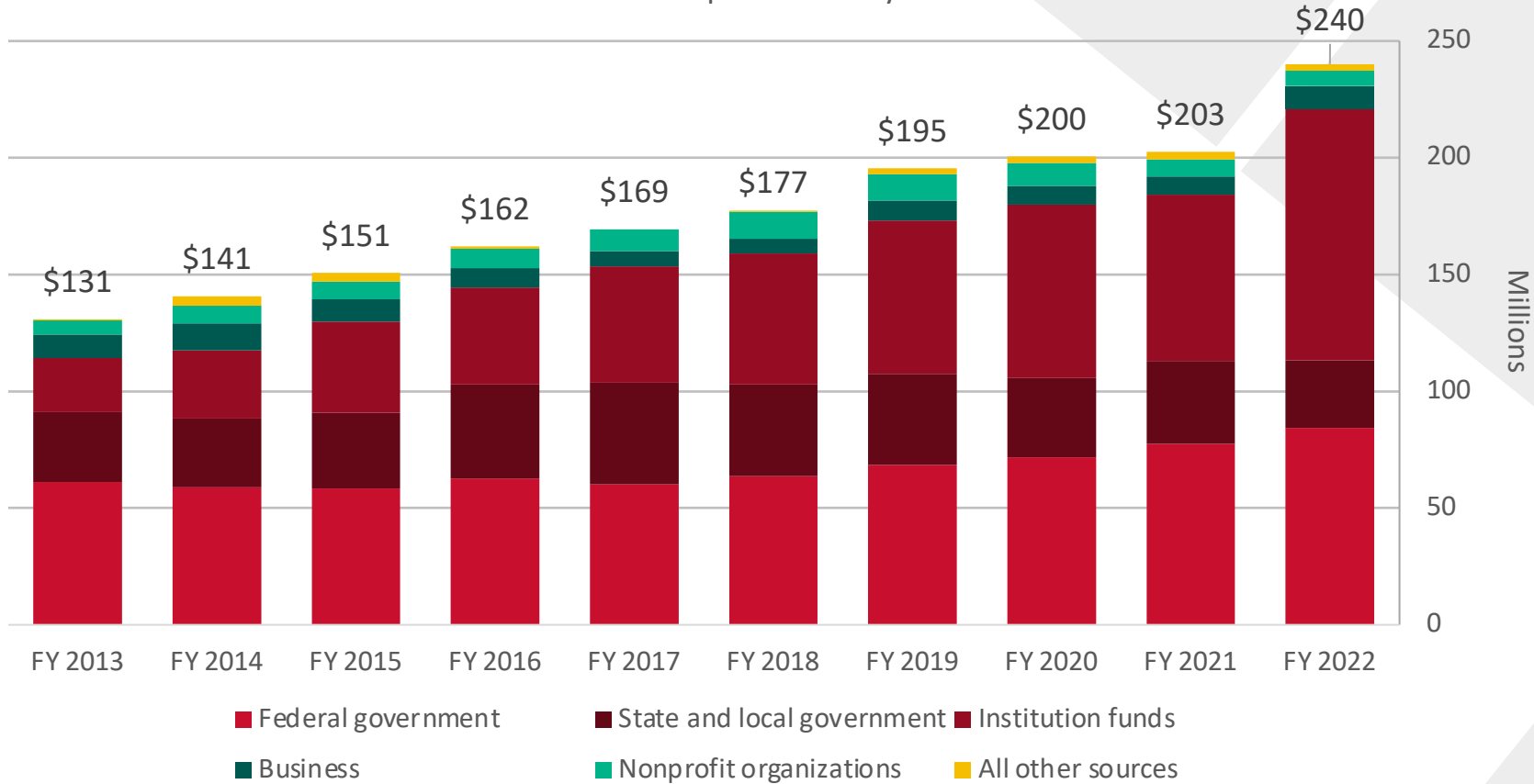
New Awards Funded
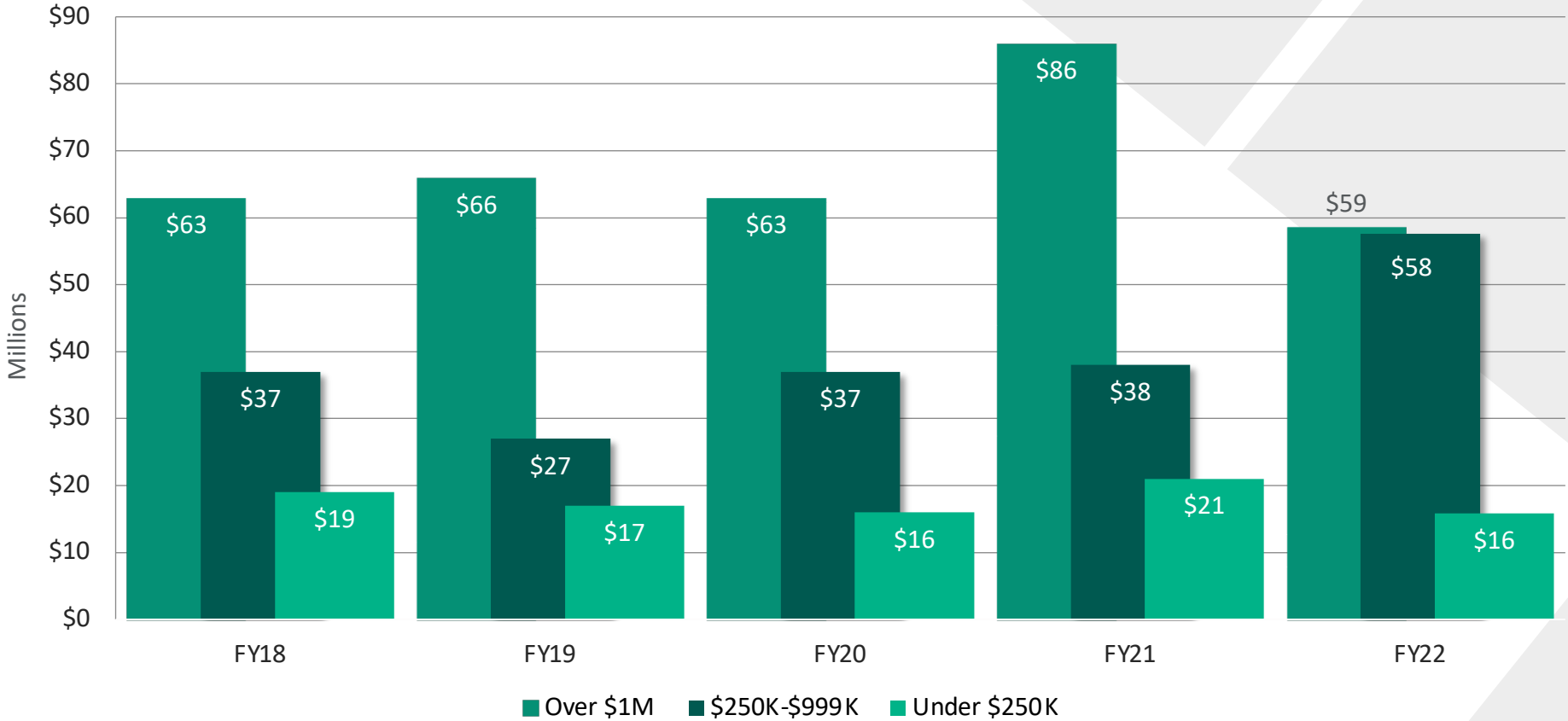
National Centers

UH leads eleven externally-funded centers, comprising numerous collaborations with partner institutions and industry…

ASMI
Advanced Superconductor Manufacturing Institute

BTI
Borders, Trade and Immigration Institute

BRAIN Center
Center for Building Reliable Advances and Innovations in Neurotechnologies

CIC
Center for Integrated Catalysis

CSEL
Center for Success of English Learners

CYBER-CARE
Transportation Cybersecurity Center for Advanced Research and Education

HEALTH-RCMI
HEALTH Center for Addictions Research and Cancer Prevention

NCALM
National Center for Airborne Laser Mapping

NCRED
National Center for Research on Educator Diversity

SSI
Subsea Systems Institute

TCLD
Texas Center for Learning Disabilities

University Centers

UH also has eight highly-visible university-supported centers….

AMI
Advanced Manufacturing Institute

CCME
Center for Carbon Management in Energy

DDI
Drug Discovery Institute

HPE DSI
Hewlett Packard Enterprise Data Science Institute

HRI
HEALTH Research Institute

HuRRI
Hurricane Resilience Research Institute

TcSUH
Texas Center for Superconductivity at UH

TIMES
Texas Institute for Measurement, Evaluation and Statistics

Notable Faculty

80 NSF CAREER Award Winners

4 National Academy of Sciences Members

35 National Academy of Inventors Members

18 National Academy of Engineering Members

Division of Research
UNIVERSITY OF HOUSTON

Major Initiatives

Setting the research agenda for the University of Houston

Vision for Research Preeminence:

Doubling Research Expenditures

Our goal is to **double our research expenditures,** increasing NSF-reported research expenditures to $400 million annually over the next five years.

To achieve this, the University is investing in infrastructure and new positions for faculty.

Division of Research
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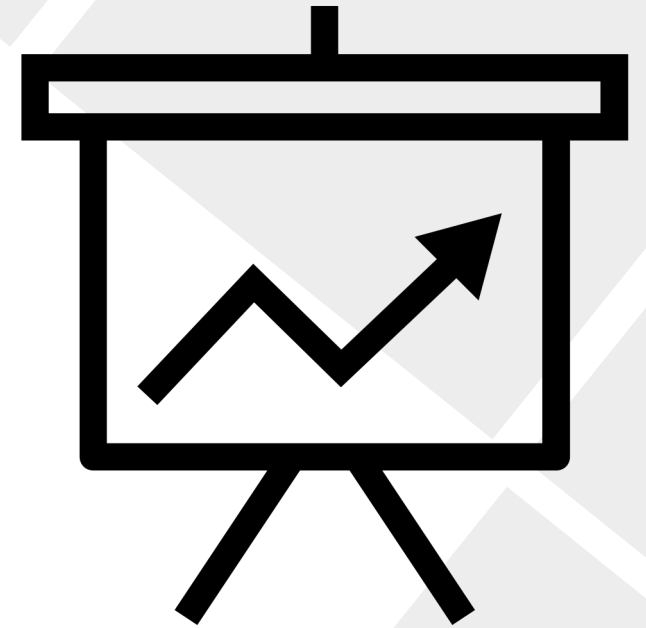
New Core Facilities

The University has committed **$22 million** to purchase equipment for new core facilities to support national priority research areas:

- **Advanced Manufacturing**
- **Advanced Materials**
- **Imaging and Scanning**
- **Data and Sensing**
- **Automation and Autonomy**

The investment will provide equipment for our research community to compete effectively for research awards and excel at delivering the goals and objectives of their research projects. Core facilities optimize investments in equipment and make them available to the UH research community.

Phase 1

- Electron Microscopy Core Facility (TEM) `Advanced Materials`
- Core Facility for Autonomy `Autonomy and Automation`
  - Virtual and Augmented Reality Core Facility
- Digital Humanities Core Facility `Data and Sensing`
- Advanced Manufacturing Core Facility `Advanced Manufacturing`
  - Pilot-scale Roll-to-roll/Large-area/Flexible Manufacturing Tools
  - Additive Manufacturing Tools (upgrade existing facility)
  - Pilot Superconductor Manufacturing Core Facility (upgrade existing facility)
  - Solid State Battery Prototype Facility

Division of Research
UNIVERSITY OF **HOUSTON**

Institutional Research Thrusts

Cyber and Physical Security

Drug Discovery and Development

Sustainable Communities and Infrastructure

Accessible Healthcare
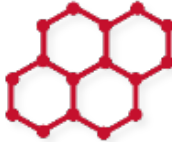
Energy Security and Transition

Research Tools

Data

Imaging

Automation

Materials

Advanced Manufacturing

Division of Research
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We are here
to help

Mission

To effectively and professionally serve the research community at UH and to lead the university in creating, managing and propagating institutional research priorities

Division of Research
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DOR Offices

Pre-Award

Post-Award

Data

Research Financial Services

Office of Contracts & Grants

Research Integrity & Oversight

Core Facilities

Division of Research
UNIVERSITY OF HOUSTON

Strategic Research Communications

Centers & Institutes

Animal Care Operations

Business Operations

Division of Research
UNIVERSITY OF HOUSTON

Research Support

Find Funding
New opportunities are published each week in the *Inside Research* newsletter.

Develop Proposals
DOR supports colleges in submitting proposals for external funding and provides workshops and other grantsmanship resources.

Manage Awards
DOR establishes cost centers, communicates terms and conditions, and oversees subaward management.

Stay in Compliance
DOR ensures compliance with federal regulations and the responsible conduct of research and conducts congruency reviews.

Division of Research
UNIVERSITY OF HOUSTON

Research Operations

Contract & Grants
- Research Administrative Services
- Research Financial Services
- Research Systems & Reporting

Research Integrity
- Human Subjects Research
- Animal Research
- Conflict of Interest

Animal Care
- State-of-the-art animal care facility

Division of Research
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Research Operations

University Level Centers & Institutes

- 8 DOR-supported research centers

Core Facilities

- $22 million for phased expansion
- Growing resources to support research thrust areas

Division of Research
UNIVERSITY OF HOUSTON

Foundational Offices

Business Operations
- Human Resources
- Budgeting/Accounting
- Research Core Facilities

Communications
- External Visibility
- Internal Engagement
- DOR News and Events

Division of Research
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Division of Energy and Innovation

Intellectual Property
- Patents
- Licensing

Innovation
- Startups
- Venture Funds
- Innovation Centers and Labs

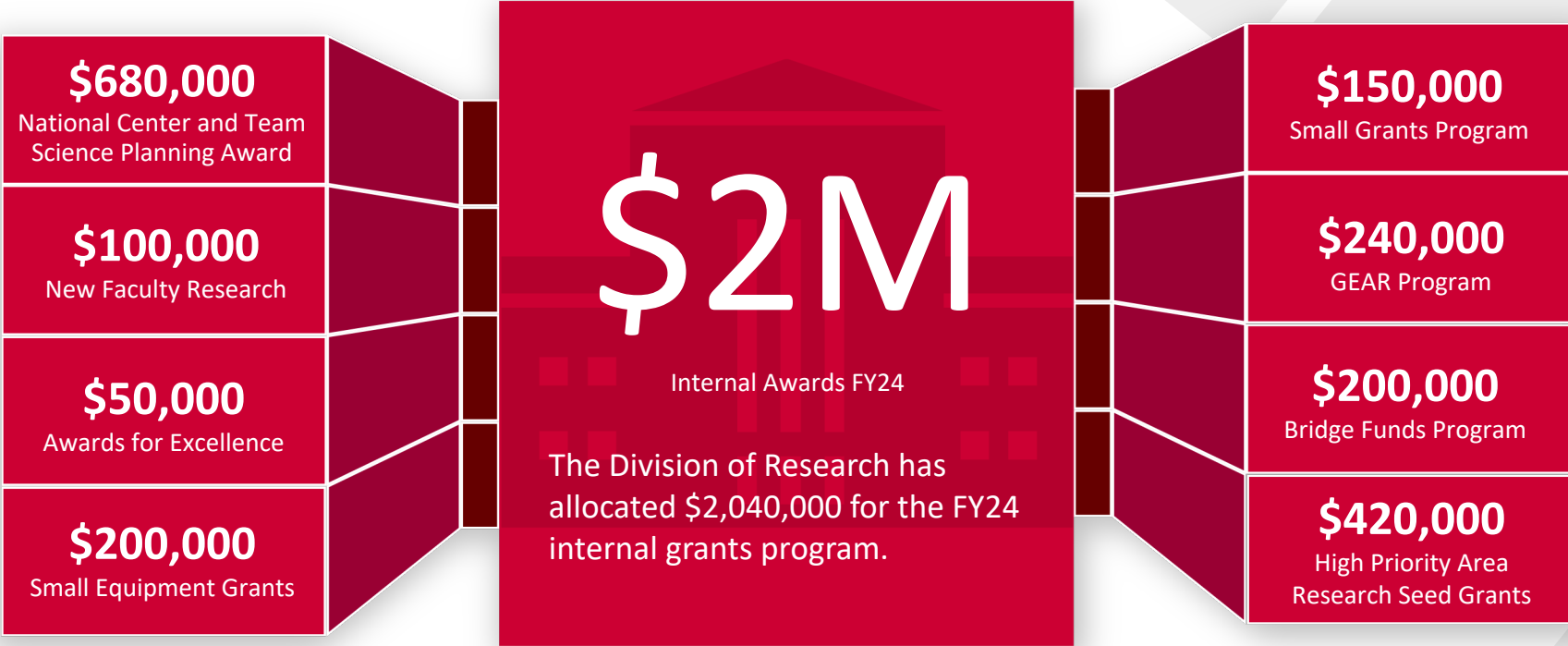**Division of Energy and Innovation**
UNIVERSITY OF **HOUSTON**

Division of Research
UNIVERSITY OF **HOUSTON**

Faculty Resources

Internal Awards

$680,000
National Center and Team Science Planning Award

$100,000
New Faculty Research

$50,000
Awards for Excellence

$200,000
Small Equipment Grants

$2M
Internal Awards FY24

The Division of Research has allocated $2,040,000 for the FY24 internal grants program.

$150,000
Small Grants Program

$240,000
GEAR Program

$200,000
Bridge Funds Program

$420,000
High Priority Area Research Seed Grants

Division of Research
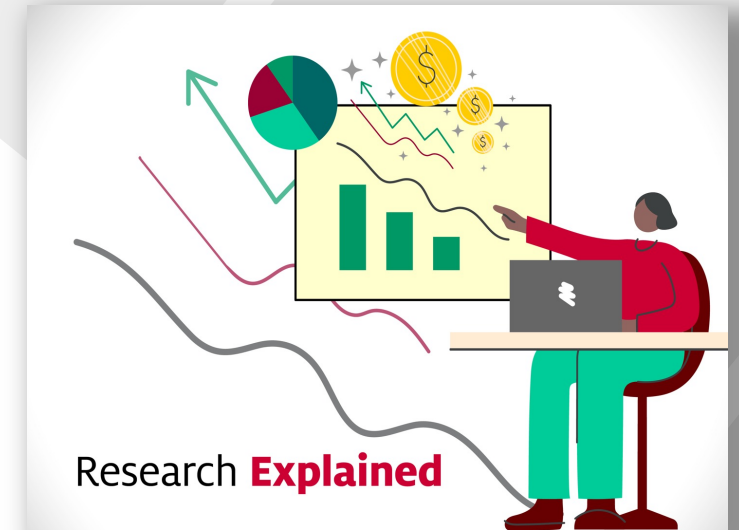UNIVERSITY OF **HOUSTON**

Event Series

UH Research Forum
Monthly presentations and panel discussions on the ever-changing world of university research.

Research Administration Forum
Monthly learning series covering processes that departmental and college research administrators encounter.

Research Explained
Deeper dives into agency updates, data management and protection, research security, and other complex topics.

Division of Research
UNIVERSITY OF HOUSTON

Upcoming Events

September

29

Data Management Best Practices for UH Researchers
Friday, September 29
10 a.m.
Virtual Event

October

20

Strategies for Success with Internal Awards
Friday, October 20
10 a.m.
Virtual Event

October

24
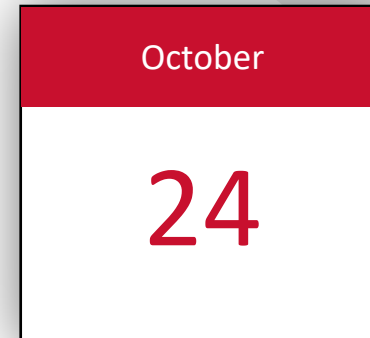
UH Research Forum
Tuesday, October 24
Noon
Virtual Event

November

2
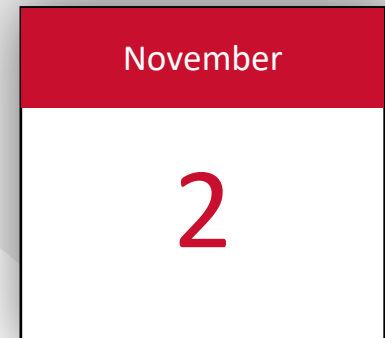
Bagels with the VP
Thursday, November 2
10 a.m.
Faculty Café

View full event schedule at uh.edu/research/calendar

UH Division of Research
UNIVERSITY OF HOUSTON

Inside Research

Every Wednesday, the Division of Research sends *news*, *events*, *funding opportunities* and other *announcements* to the UH research community.

Inside Research
News, Events and Resources for the UH Research Community

Latest News   Upcoming Events   Featured Event   Featured Funding Ops

Announcements

- The **FY2024 Proposal Budget Template** has been updated to reflect the latest IDC rate plan and fringe rates, and it is now available for use. Download the new template (.XSLX).

- The **HEALTH Center for Addictions Research and Cancer Prevention** Pilot Grant Progam invites applications that seek to break new ground in addressing health disparities in addictions and cancer prevention. This short-term (1-year) funding opportunity supports 3 to 5 innovative pilot grants ($30,000 to $50,000), with funding anticipated to start in February 2024.

  Letters of Intent are due by **September 1**.

View past announcements on the Division of Research website.

Campus News

$1.7M Research Project to Examine How Public Schools Identify Learning Disabilities

UH Research Associate Professor of Psychology Jeremy Miciak will lead a four-year study at schools in Texas and Florida. His team will examine how elementary schools identify specific learning disabilities in students so children with significant academic disabilities can succeed.

UH Leads Program to Provide Research Opportunities to Postbaccalaureates

Featured Funding Opportunities

Health   Science, Engineering & Technology   Social Sciences, Art, Humanities & Education

Health

Funding Agency: National Institutes of Health
Title: NIA Research and Entrepreneurial Development Immersion (REDI): Entrepreneurial Small Business Transition Award (R41/R42 Clinical Trial Optional)
Application Deadline: October 26, 2023
This Notice of Funding Opportunity (NOFO) invites Research and Entrepreneurial Development Immersion (REDI) Small Business Technology Transfer Research (STTR) Grant applications. The goal of this NOFO is to foster the career development of early-career scientists with an interest in entrepreneurship by simultaneously supporting their entrepreneurial development and facilitating their transition to industry.

Funding Agency: National Institutes of Health
Title: Analytical and Clinical Validation of Biomarkers for Alzheimer's Disease (AD) and AD-Related Dementias (ADRD) (U01 Clinical Trial Optional)
Application Deadline: Multiple deadlines
The goal of this Notice of Funding Opportunity (NOFO) is to accelerate the establishment of effective and reliable biomarkers of Alzheimer's disease (AD) and AD-related dementias (ADRD) for use in therapy/medical product discovery and development, clinical trials and/or clinical practice. Specifically, this NOFO will support analytical and/or clinical validation of a biomarker, composite biomarker or biomarker signature, with rigor comparable with the expectations described in the Food and Drug Administration (FDA)Biomarker Qualification Program (BQP) or recommended by other FDA regulatory pathways.

Funding Agency: National Institutes of Health
Title: Understanding and Mitigating Health Disparities experienced by People with Disabilities caused by Ableism (R01 Clinical Trial Optional)
Application Deadline: November 29, 2023
The goal of this NOFO is to encourage research to understand the impact of ableism on health outcomes. Research on the underlying mechanisms by which ableism adversely influences the health of persons with disabilities (PWD), as well as developing and/or testing interventions at a community or health systems level to mitigate adverse health effects of ableism are high priority.

Funding Agency: National Institutes of Health
Title: Planning for Product Development Strategy (R34 Clinical Trial Not Allowed)
Application Deadline: Multiple deadlines
The purpose of this Notice of Funding Opportunity (NOFO) is to support the development of a comprehensive and well-defined product development strategy for next-generation treatments for HIV and HIV-associated comorbidities, coinfections and complications and preventive strategies for HIV, as well as facilitating the translation of research findings into drug products that enables submission of an Investigational New Drug (IND) application to the FDA.

Funding Agency: National Institutes of Health
Title: NIA Research and Entrepreneurial Development Immersion (REDI): Entrepreneurial Small Business Transition Award (R43/R44 Clinical Trial Optional)
Application Deadline: October 26, 2023
This Funding Opportunity Announcement (FOA) invites Research and Entrepreneurial

Division of Research
UNIVERSITY OF HOUSTON

Networking

Office of Contracts and Grants

Submit Proposals and Manage Your Awards

- **Research Administrative Services** assists faculty in proposal development and submission, sponsored project contract negotiation and execution of monetary and non-monetary agreements, and management of awards.

- **Research Financial Services** handles billing, financial reporting, and effort reporting and close out for sponsored projects.

- **Research Systems and Reporting** is responsible for data and system analysis for division and institutional reporting, and oversee the design, development, and maintenance of research databases

Networking

Research Integrity and Oversight
Understand the Regulations Around Your Research

- Ensures compliance with federal regulations for work with both human and animal subjects, conflicts of interest, grant congruency, and responsible conduct of research.

- Conducts congruency reviews prior to award set up (verifies IRB, IACUC, COI, safety approvals)

Networking

Animal Care Operations

Care For Your Research Animals

- Provides professional veterinary and husbandry services to support animals used in biomedical and behavioral research

- Maintains standards for animals, facilities, equipment, and procedures

- Offers services to faculty for animal procurement, training, veterinary consultation in research design, transportation of animals and veterinary care

Division of Research
UNIVERSITY OF HOUSTON

Networking

Supporting Services

- **Business Operations** provides human resources, financial, and administrative support services for the Division of Research, and is responsible for maintenance of computer databases and division information repositories.

- **The Research Administration** office provides oversight to laboratory renovation and construction projects, as well as University wide core facilities and large equipment purchases.

- **Strategic Research Communications** is responsible for raising the visibility of UH research and innovation programs nationally, among peer institutions and throughout Houston's regional industry.

Division of Research
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