

Office of the Provost | Division of Research

50↑5
IN

Office of the President

RENU KHATOR



Dear Campus Community,

UH takes immense pride in the progress it has made as a comprehensive research institution during the past decade.

Exceeding the Texas Legislature's benchmarks for National Research University Funding (NRUF), notably improving our position in the Top American Research University (TARU) rankings and achieving Tier One status are the results of having a big dream and pursuing it with passion.

Now, we need to make that dream even bigger.

It is time to look beyond Tier One and set our sights on a new level of excellence. Today, I am announcing a bold initiative to substantially expand the research enterprise at our University. Called **Research Preeminence: 50 in 5**, this ambitious program will focus on increasing everything related to our research efforts and scholarly output at UH by 50 percent during the next 5-year period. This includes publications, citations, awards, casebooks, cited performances and research expenditures.

In addition, we will **double the number of our national research centers** from the current 5 to 10.

Reaching these objectives should produce the kind of outcomes one associates with membership in the prestigious Association of American Universities (AAU). Are these goals challenging? Indeed they are. Are they within our reach? Indeed they are—provided we effectively draw on the considerable intellectual vitality and innovative spirit all across this campus.

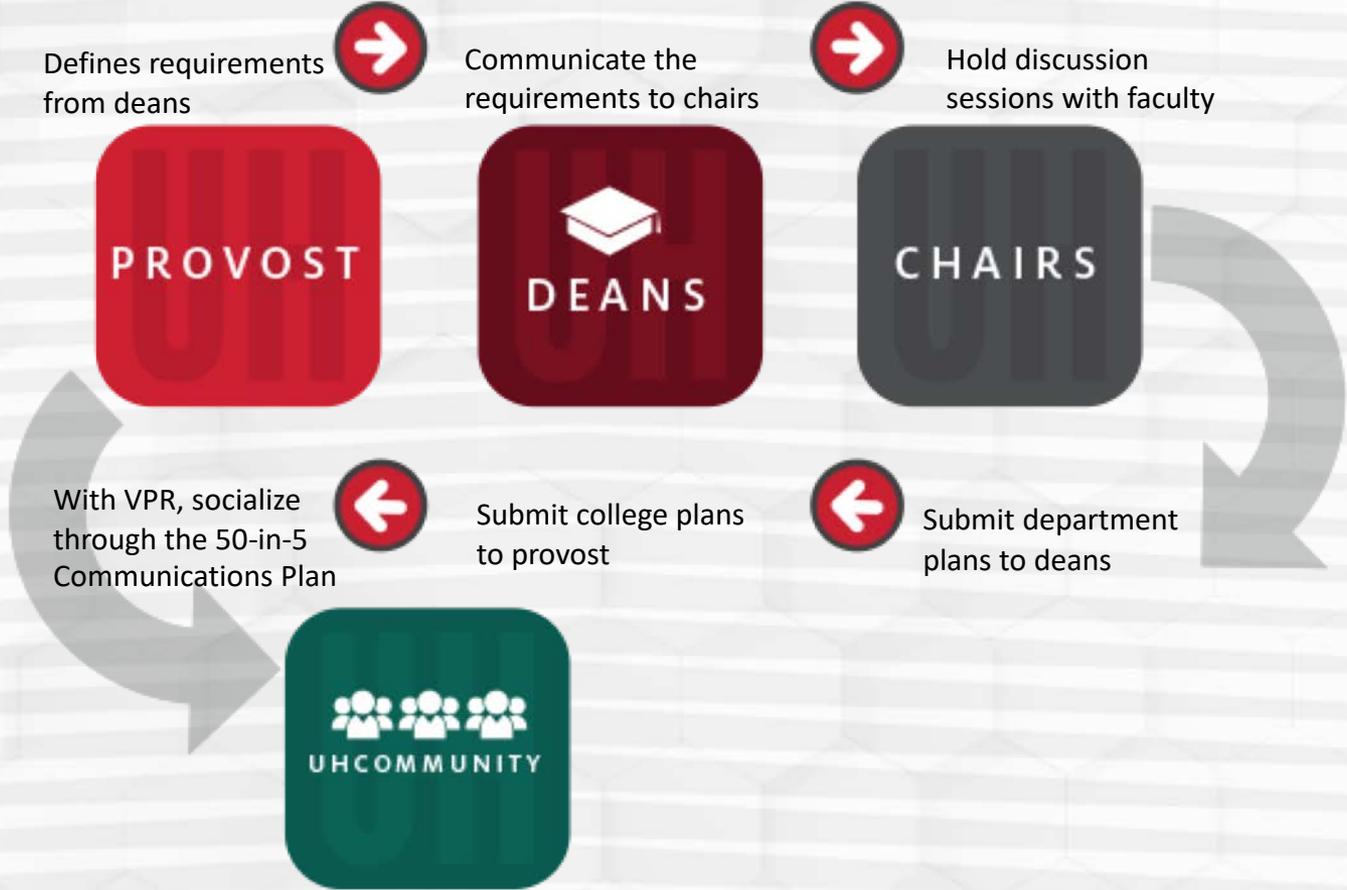
Value Proposition

- The University of Houston is one of 115 select universities in the U.S. to gain the coveted Carnegie Research 1 (Very High Research) designation
- UH community benefits from greater visibility and opportunity for publications and research grants, as well as increased fiscal support for fellowships and activities that foster collaborations and connections with world renowned scholars both nationally and internationally
- By further expanding our research enterprise, we continue to grow these benefits on an exponential level
- Through 50-in-5, we celebrate our preeminence as a Top Tier university while placing stronger, more strategic focus on research, supported by the commitment and energy of UH's top leaders

Value Proposition

- We have seen an increase of 5% in research numbers from FY17 to FY18
- To meet the goals of 50-in-5, we need to see growth of 8.5% each year.
- Will double the number of national research centers led by the University
- While research expenditure is a major metric that influences national ranking, every aspect of our scholarly contribution bolsters reputation and enhances reputational components of ranking formulae
- If we want the University of Houston to progress further in rankings, reputation, external support, and opportunities for our faculty, students, and staff, we must be laser focused on doing more and better. This goal is worth our collective efforts

50 in 5 – Consultation Process



College Success Measures Examples

College 1

- Number of performances, exhibitions, and productions
- Number of publications
- Number of professional presentations and appearances
- Income from grants
- Number of faculty awards

College 2

- Total Research Expenditures
- Journal Articles Published
- Number of Citations
- Percentage of tenured and tenure track with external, competitively funded grants
- Number of Faculty Awards and Society Fellowships

50 in 5 – Communications Plan

MAINLY
INTERNAL

POSTERS
BOARDS
GIVEAWAYS

TOWN HALLS
AND OPEN
FORUMS

TOPICAL
SEMINAR
SERIES

E-NEWSLETTER

What is the
opportunity?

Membership in the Prestigious AAU

INSTITUTION	AAU?
UT Austin	Yes
Texas A&M University	Yes
UT Dallas	No
Texas Tech University	No

INSTITUTION	AAU?
UCLA	Yes
University of Maryland	Yes
Arizona State University	No
University of Arizona	Yes
University of South Florida	No
University of Illinois-Chicago	No
University of Central Florida	No
Wayne State University	No

AAU Indicators

- Competitively funded federal research funding
- National Academy Members
- Citations
- Faculty awards
- USDA, state, local, and industrial research funding
- Doctoral degrees granted
- Postdoctoral appointees

Our Ranking – FY16 Federal Expenditures (AAU)

Expenditures*
(in thousands)

ORGANIZATION	Federal Expend minus USDA 2016	
	RANK	PER T/TT FACULTY
University of California-Santa Barbara	51	\$139.18
Stony Brook University	52	\$129.15
Indiana University-Bloomington	53	\$127.05
Texas A & M University-College Station	54	\$125.54
University of Florida	55	\$110.97
University of Kansas	56	\$108.30
Purdue University-Main Campus	57	\$101.31
University of Oregon	58	\$85.44
University of Missouri-Columbia	59	\$83.66
Iowa State University	60	\$63.38
University of Houston	61	\$61.53

*Minus USDA

Our Ranking – FY16 National Academy Members (AAU)

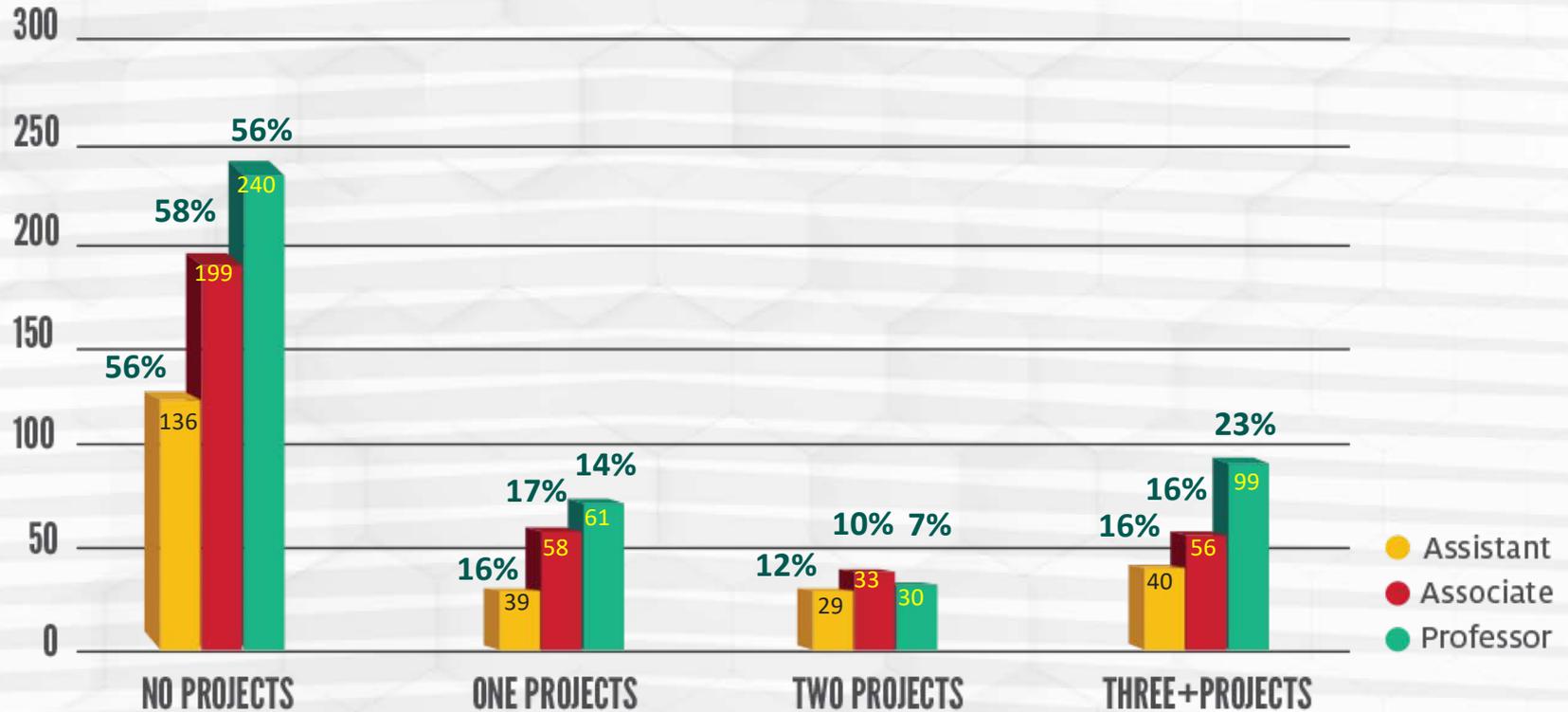
ORGANIZATION	TARU Academy Members 2015	
	RANK	PER T/TT FACULTY
Pennsylvania State University-Main	51	0.0125
University of Oregon	52	0.0116
University of Florida	53	0.0101
University of Houston	54	0.0088
University of Missouri-Columbia	55	0.0084
University at Buffalo	56	0.0075
Michigan State University	57	0.0067
Iowa State University	58	0.0058
Indiana University-Bloomington	59	0.0046
University of Kansas	60	0.0039
Tulane University of Louisiana	61	0.0017

Our Ranking – FY16 Citations

ORGANIZATION	InCites Tot Times Cited 2012-16	
	RANK	PER T/TT FACULTY
University at Buffalo	51	144.4
Purdue University-Main Campus	52	136.2
Tulane University of Louisiana	53	132.9
University of Kansas	54	126.1
Iowa State University	55	125.2
Texas A & M University-College Station	56	124.0
University of Missouri-Columbia	57	112.9
University of Oregon	58	110.5
University of Houston	59	98.3
Indiana University-Bloomington	60	92.0
Pennsylvania State University-Main Campus	61	6.0

Total Ranked Faculty with Projects - Academic Colleges

Total Projects FY17: 1213



* Emeritus Professors are not reflected in the above numbers.

Sources of National Research Funds over 50 Years

Non-Defense

Defense

+33%



Fundamental

Applied

+57%



Center Funding Opportunities



NOAA RESTORE
NOAA Cooperative Institutes
NNMI



Centers of Excellence
Univ. Transportation Centers (UTC)



MRSEC
ERC
IUCRC
S-STEM



Centers of Excellence



Institutes of Education Sciences
OESE
OPE

U.S. Department of Health & Human Services



National Institutes
of Health

Centers of Excellence
COBRE
Specific Targeted Centers



EFRC
Energy Innovation Hub
REMADE



Centers of Excellence
CIRC



Space Technology Research
Institutes (STRI)

More than 100 opportunities for major center grants

How do we
get there?

University Thrusts and Institutes



Cyber and Physical Security



Sustainable Communities
and Infrastructure



Drug Discovery and Development



Accessible Healthcare

Hewlett Packard Enterprise
Data Science Institute

HURRI

Hurricane Resilience Research Institute

50 in 5 – Increase in Scholarly Output

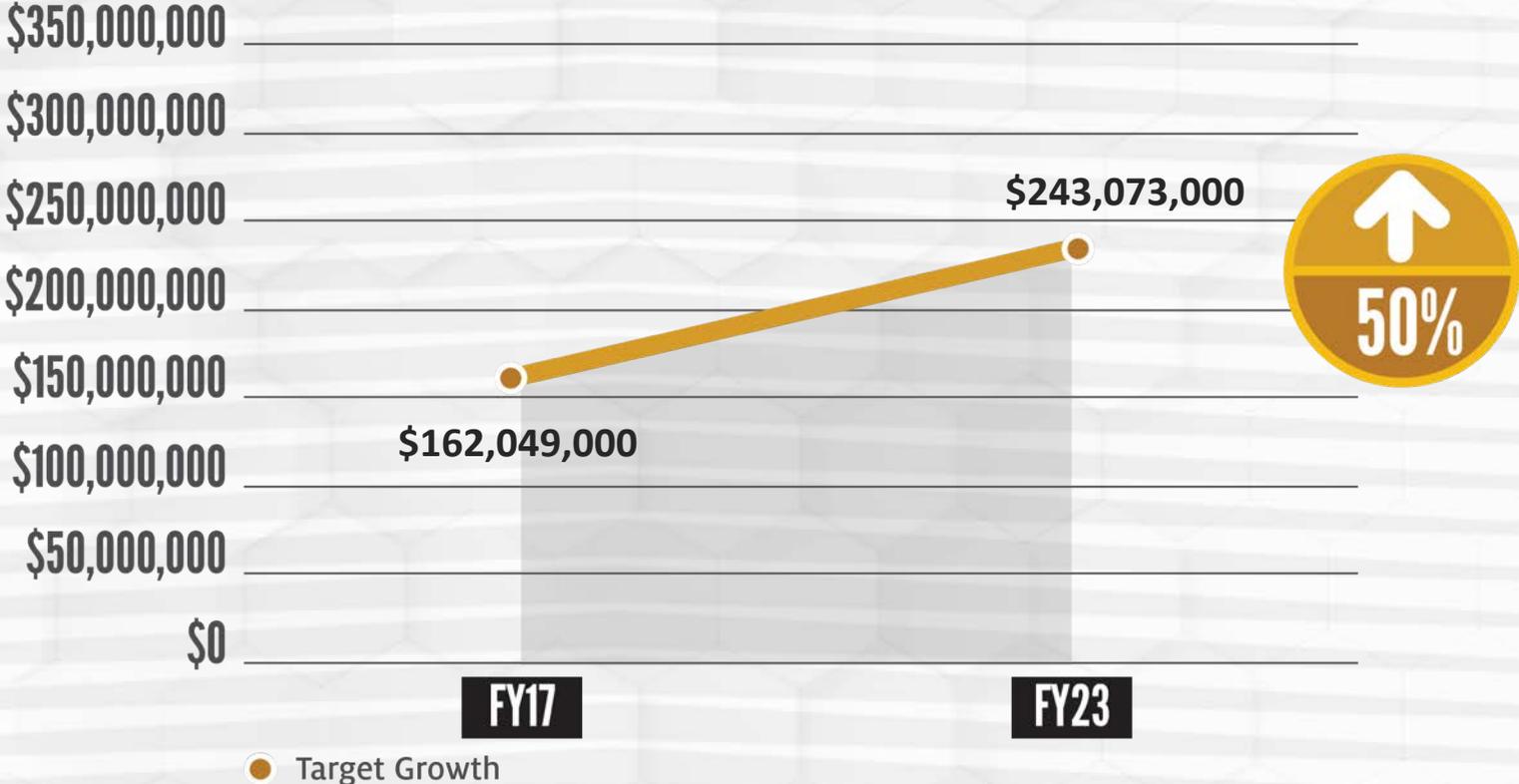


50 in 5 – How do we increase scholarly output?



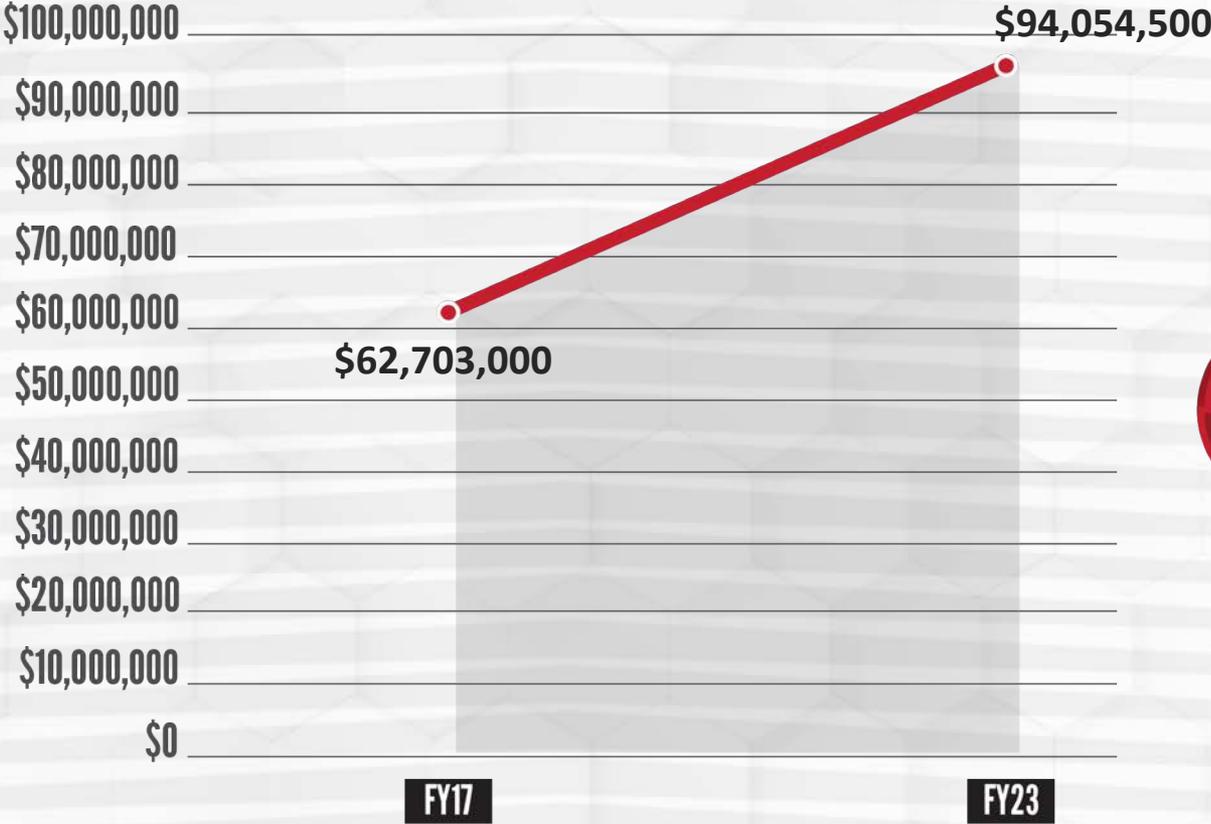
50 in 5 – Increase in Research Expenditures

Expenditures – NSF HERD Survey



50 in 5 – Increase in Research Expenditures

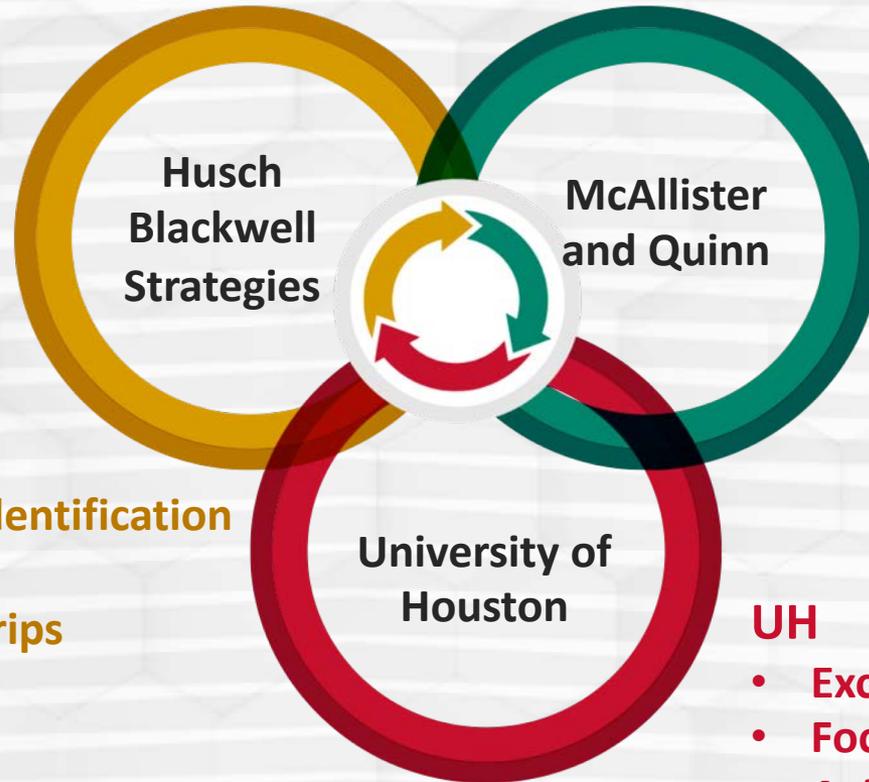
Federal Expenditures Only, Public Institution



● Target Growth

What resources
do we have?

Engagement Model to Raise UH Profile



M&Q

- Proposal Preparation
- Advocacy
- Mapping of Research

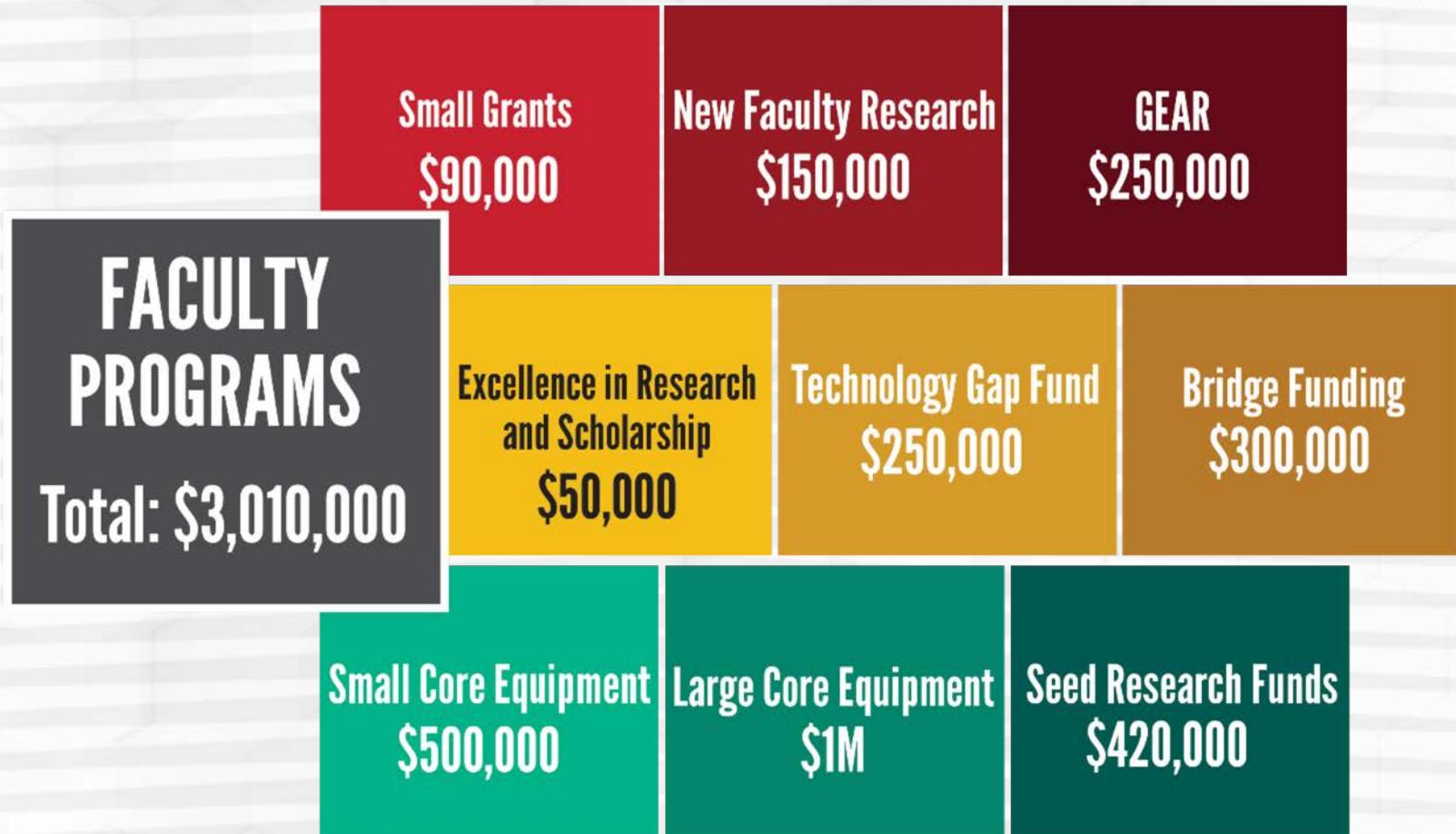
HBS

- Opportunity Identification
- Advocacy
- Connectivity Trips

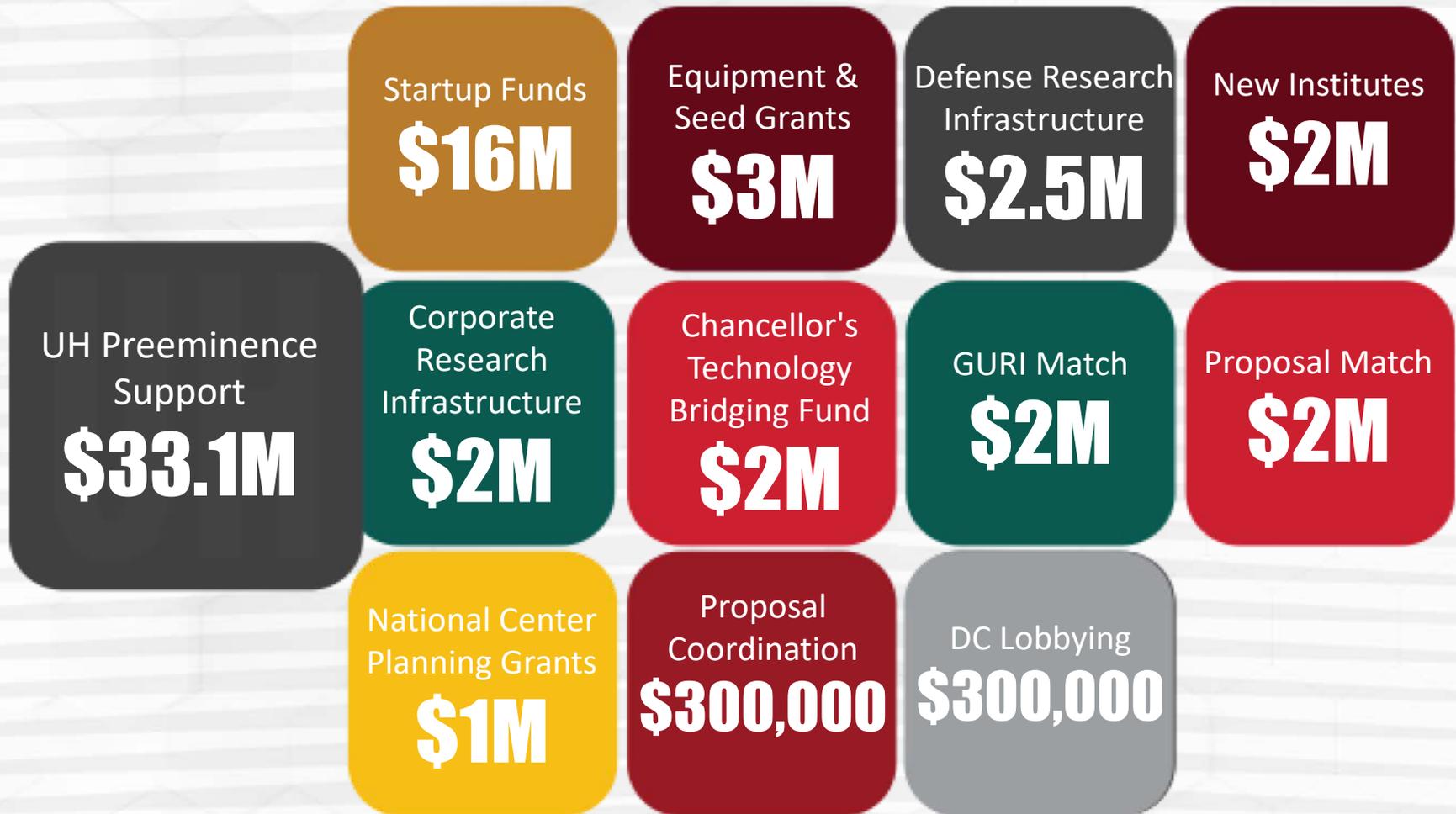
UH

- Exceptional Faculty
- Focused Priorities
- Agile Leadership

Internal Awards Programs



Planned Institutional Support for Research Preeminence



www.uh.edu/research