Annual Report on Awards Over $1 Million

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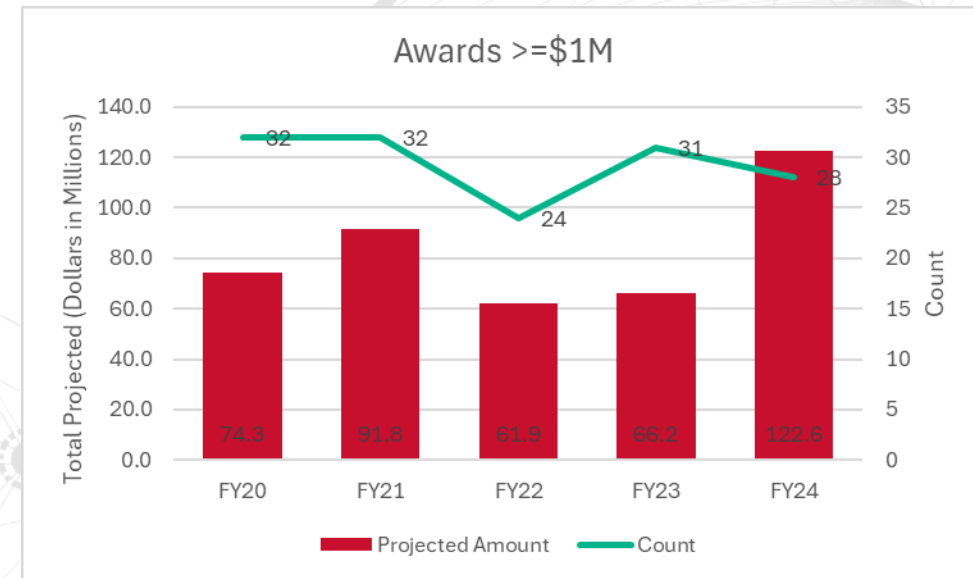Division of Research
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Awards During FY20-24

- During FY 20-24, UH received 1,873 awards for a total of $750.8 Million

- 80% of total projected award amounts and total number of proposals came from 6 colleges
  - Engineering
  - Natural Sciences & Mathematics
  - Liberal Arts & Social Sciences
  - Pharmacy
  - Optometry
  - Education

Primary Federal Funding Agencies (FY 20-24)

	Count	Total Projected	Per
HHS	360	238,960,924	31.8%
DOD	87	118,437,648	15.8%
NSF	296	114,759,987	15.3%
DOE	85	42,406,154	5.6%
DOEd	30	32,456,646	4.3%

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Awards Over $1 Million During FY20-24

- During FY 20-24, UH received 147 awards over $1M
  - Total projected award amounts: $416.8 M
  - Average projected award amount: $2.83 M
- In FY 24: 28 awards; total of $122.6 M
- The largest award in FY 24:
  - Dr. Craig Glennie
  - U.S. Department of the Army
    - Priority analysis capabilities for competition, crisis, and combat (pac4)
    - $63.5 Million

Awards >=$1M

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UH FY24 Highlights

- Top Colleges
  - Engineering (7): $74.8 M
  - NSM (6): $12.9 M
  - Optometry (3): $9.29 M
  - CLASS (3): $6.28 M
  - Pharmacy (3): $3.94 M

- A sample
  - **Dr. Rohita Reddy (Engineering):** Improving the accuracy of lupus nephritis diagnosis using biomarkers derived from ultraviolet and mid-infrared spectroscopic imaging ($3.2 M; NIH)
  - **Dr. Jeannette Alarcon (Education):** UH teacher preparation TQP 2022 ($3.4 M; DOEd)
  - **Dr. Wendy Harrison (Optometry):** Characterizing ocular structures and local retinal function in the progression of different objective phenotypes of prediabetes and type 2 diabetes ($3.3 M; NIH)
  - **Dr. Clayton Neighbors (CLASS):** Evaluating telehealth delivery of brief alcohol screening and intervention for college students ($3.2 M, NIH)
  - **Dr. Weiyi Peng (NSM):** Thor: targeted hybrid oncotherapeutic regulation ($2.1 M; ARPA-H→Rice U., $45 M; consortium of 8 universities and 2 private industry partners)
  - **Dr. Venkat Selvamanickam (Engineering):** Low-cost, high-rate fabrication of high-performance, uniform, long rebco conductors ($2.0 M; ARPA-E)

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UHD FY24 Highlights

- The **NSF REU in Computational Sciences and Engineering** is led by Professor Vassilios Tzouanas.

- The project seeks to increase and solidify the interest and proficiency in STEM among rising sophomore, junior, and senior undergraduate students.

- The program provides active research engagement in the pursuit of new knowledge and solutions to important societal challenges.

- Students will get direct, hands-on experience in research projects that focus on computational sciences and engineering:
  - cybersecurity
  - data analytics
  - machine learning
  - process automation
  - structural engineering
  - data-driven safety management

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UHCL FY24 Highlights

- The $2.6 Million **EXCITE: Building on Strengths, Expanding Access, and Transforming Lives grant** from the U.S. Department of Education, led by Drs. Kathy Matthew and Roberta Raymond, seeks to expand access to postsecondary education for Houston's growing population of low-income residents.

- The goal is to increase the retention and graduation of students in the Master of Arts in Teaching (MAT), Master of Science (MS) in School Counseling, and the Doctor of Education (EdD) in Curriculum and Instruction with a STEM emphasis.

- The project provides scholarships for low-income students and the scholarships.

- The grant was originally funded in 2019 for $2.7 million.

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UHV FY24 Highlights

- Dr. Hardik Gohel continues to conduct two **Minority Serving Partnerships Programs with Battelle Savannah River Alliance** with an overall award amount of $1,013,000.

- The success of the project is exemplified by the accomplishments of the PI, research staff, and students.
  - The research results have produced four ongoing publications and 3 professional conference presentations.
  - Graduate and Undergraduate researchers have conducted 18 presentations at the Waste Management Symposia (radioactive waste).
  - Four students have secured internships at federal labs and a student was hired by Savannah River National Laboratory.

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A Glimpse into the Future

- **Dr. Bettina Beech** is the UH MPI on the $44.2 M CTSA award with Baylor College of Medicine as the lead institution: Consortium for Translational and Precision Health (CTPH)

- **Dr. Yan Yao** is the UH PI on the $62.5 M Argonne Collaborative Center for Energy Storage Science award with Argonne as the lead and 13 other partners

- $4.8M National Institutes of Health Award for **Dr. Lorra Garey**: A National Test of a Culturally Tailored mHealth Integrated Smoking Cessation and Mental Health Intervention for Black Adults with HIV

- $1.6M National Science Foundation Award for **Dr. Jerrod Henderson**: Collaborative Research: Identifying Features of Informal Engineering Programs that Foster Youths' Engineering Identities

- $1.3M National Science Foundation Award for **Dr. Jose Luis Contreras-Vidal**: AccelNet Implementation Phase 1: Growing Convergent Research to Advance Scientific Understanding and Applications of Coupled Brain Activity, Expressive Movement and Music

- $1.2M National Science Foundation Award for **Dr. Jerrod Henderson**: Authentic Community-Engaged Scholarship in STEM Education Postdoc Training Program

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