

2014 HHMI Grants to Research Universities

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Summary

Through its 2014 *Sustaining Excellence* competition, HHMI is awarding new science education grants that will support activities at 37 research universities.

Howard Hughes Medical Institute (HHMI) has awarded new grants that will support activities at 37 research universities in the following thematic areas:

Student Learning and Faculty Development Communities

The development of learning communities will improve interactions between and among students and faculty, which will impact the institutional climate and culture. Activities include those designed to support (i) students in the areas of engagement, enthusiasm, math competency, foundational science, self-efficacy, and science identity, (ii) faculty in mentoring, advising, teaching, instruction, and collaborations, and (iii) student-faculty interactions, relationships, and perceptions. These activities support all student populations, especially introductory-level, non-traditional, transfer, at-risk and underrepresented students.

School	Location	Award Amount
College of William & Mary	Williamsburg, VA	(\$1.5M)
Drexel University	Philadelphia, PA	(\$1.2M)
Duke University	Durham, NC	(\$1.5M)
Lehigh University	Bethlehem, PA	(\$1.9M)
Loyola University Chicago	Chicago, IL	(\$1.9M)
Portland State University	Portland, OR	(\$2.0M)
Rensselaer Polytechnic Institute	Troy, NY	(\$1.2M)

University of California, Berkeley	Berkeley, CA	(\$1.5M)
University of Kentucky	Lexington, KY	(\$1.9M)
University of Maryland, College Park	College Park, MD	(\$1.2M)
University of Minnesota, Twin Cities	Minneapolis, MN	(\$1.2M)
University of South Florida	Tampa, FL	(\$1.2M)
Western Michigan University	Kalamazoo, MI	(\$1.4M)

Introductory Course and Curriculum Development

HHMI grants will support major reform of introductory STEM courses (also known as gateway/gatekeeper courses). The changes impact instructional practices and pedagogy, and activities include providing active-learning and inquiry-based experiences to students, restructuring the curriculum for STEM degrees, measuring the effectiveness of student learning, and incorporating evidence-based teaching practices and educational research scholarship.

School	Location	Award Amount
Brown University	Providence, RI	(\$1.5M)
Emory University	Atlanta, GA	(\$1.2M)
Florida International University	Miami, FL	(\$1.5M)
Michigan State University	East Lansing, MI	(\$1.5M)
Oklahoma State University	Stillwater, OK	(\$1.5M)
University of California, Santa Barbara	Santa Barbara, CA	(\$1.5M)
University of California, Santa Cruz	Santa Cruz, CA	(\$1.5M)

University of Houston	Houston, TX	(\$1.5M)
University of New Orleans	New Orleans, LA	(\$1.5M)
University of Washington	Seattle, WA	(\$1.5M)
Yale University	New Haven, CT	(\$1.2M)

Course-based Research Experiences (CREs)

Using HHMI support, universities will redesign and/or expand introductory science laboratory courses to immerse undergraduates in research experiences. The courses provide project-based and discovery-based studies or modules where the students' research results can benefit faculty members' research.

School	Location	Award Amount
Howard University	Washington, DC	(\$1.4M)
New Mexico State University	Las Cruces, NM	(\$1.9M)
Rice University	Houston, TX	(\$1.9M)
University of California, Riverside	Riverside, CA	(\$2.4M)
University of Colorado at Boulder	Boulder, CO	(\$1.5M)
University of Idaho	Moscow, ID	(\$1.2M)
University of Miami	Miami, FL	(\$1.5M)
University of Michigan	Ann Arbor, MI	(\$1.5M)
University of Pittsburgh	Pittsburgh, PA	(\$1.5M)

Adaptation of Freshman Research Initiative (FRI) Models

HHMI grants will support the adaptation and implementation of the FRI program originally developed at the University of Texas at Austin. Students work in research streams under the guidance of their faculty and graduate student mentors in teams, and individual students can have their own independent projects with the potential to publish their work. UT Austin will be expanding the program to accommodate transfer students.

School	Location	Award Amount
Iowa State University	Ames, IA	(\$1.2M)
State University of New York at Binghamton	Binghamton, NY	(\$1.2M)
University of Texas at El Paso	El Paso, TX	(\$2.4M)
University of Texas at Austin	Austin, TX	(\$2.4M)