

Postdoctoral Program for Preparing Future Faculty Hope College - Howard Hughes Medical Institute

The Hope College – HHMI Postdoctoral Program for Preparing Future Faculty is a collaborative effort of Hope College, Howard University, and The University of Texas at El Paso and is supported by a four-year award from the Howard Hughes Medical Institute to Hope College in Holland, Michigan. Funding is available for two-year positions at Hope College as Hughes Postdoctoral Fellows. Preference will be given to candidates who are recent doctoral graduates from Howard University or The University of Texas at El Paso but the program is open to recent doctoral graduates from other institutions who are members of groups underrepresented in the natural sciences or psychology. The goal of the Hughes Postdoctoral Fellows program is to model the integration of research and teaching at the undergraduate level for individuals who envision a professional career as scholar/educators. Hope College – Hughes Fellows will be prepared to serve as catalysts for the integration of undergraduate research and teaching throughout their careers.



Hughes Fellows will be mentored by research active faculty at Hope and will be provided with numerous opportunities for further development as researchers and teachers. Research programs at Hope College are well funded and the faculty are widely recognized as leaders in carrying out research with undergraduates. With Hope collaborators, the Hughes Fellows will prepare a plan for participation in research, teaching, and curriculum development while at Hope College. The goal is for the Fellow to be well prepared for career placement and advancement following their time at Hope.

Therefore, in addition to collaborative research, Fellows will team teach a course with a Hope colleague, participate in curricular development of the course, and learn to engage students in active learning, group learning, individual projects, written and oral communication, and hypothesis generation and testing. Each Fellow will also present a seminar on research or curriculum development and develop a grant proposal assisted by Hope colleagues experienced in preparing competitive proposals. Upon accepting their next position the Fellow will then be prepared to submit the proposal.

Hope College – Hughes Fellows opportunities are available in Biology, Biochemistry/Molecular Biology, Chemistry, Computer Science, Engineering, Geological and Environmental Sciences, Mathematics, Physics, and Psychology. Hughes Fellows positions include benefits and funds for moving, research, and travel expenses.

If you are interested in learning more about the Hope College – Hughes Fellows program or would like to apply for a position, please contact:



Dr. Christopher C. Barney
HHMI Program Director
Department of Biology
35 East 12th Street
Holland, MI 49423

E-mail: Barney@hope.edu
Phone: 616-395-7710



The HHMI Program

In the fall of 2004, Hope College received a four-year, 1.5 million-dollar award from the Howard Hughes Medical Institute to promote teaching, research, and student learning in the Natural Sciences and Psychology. The HHMI Program at Hope College includes a new focus on the interdisciplinary nature of science, the development of minors in neuroscience and computational sciences and modeling (with funding for a computational sciences and modeling laboratory), and support for summer research experiences for undergraduates. In addition, the HHMI award is supporting improvements in future K-12 science teaching through awards to undergraduates and future college science teaching and scientific research through a postdoctoral program.

Hope College



Hope College is a distinguished liberal arts college known for excellence in science, mathematics, and psychology. Hope College is located in Holland, Michigan, a diverse community of 112,000 located five miles from Lake Michigan in southwestern Michigan. Holland is 31 miles from Grand Rapids, 173 miles from Detroit, and 146 miles from Chicago. Hope has an enrollment of nearly 3000 undergraduate students and a student/faculty ratio of 13:1. Hope was founded in 1866 and is affiliated with the Reformed Church in America. Hope College is accredited by The Higher Learning Commission and is a member of the North Central Association. Hope offers 80 majors leading to B.A., B.S., B.M. and B.S. in Nursing degrees. Hope ranks 67th of 1,115 predominantly undergraduate institutions in the production of science

baccalaureate degrees (1985-1997) and is in the top 25 of predominantly undergraduate institutions as the baccalaureate degree institution for doctorates in science and engineering (1991-1995).

The Natural Science Division and the Psychology Department

The Natural Science Division consists of the Departments of Biology, Chemistry/Biochemistry, Computer Science, Engineering, Geological and Environmental Sciences, Mathematics, Nursing, and Physics with 62 full-time faculty members. From 1999 to 2003, external grants to the Natural Science Division totaled over 8.2 million dollars. In the fall of 2004, Hope dedicated the \$36 million-dollar, 195,000 ft², Science Center, which houses the Biology, Chemistry/Biochemistry, Geological and Environmental Sciences, Nursing, and Psychology Departments. The Science Center has been designed with flexible, interdisciplinary teaching and research laboratory spaces that foster student learning, promote interdisciplinary teaching, and infuse research and teaching with technology. The Departments of Computer Science, Engineering, Mathematics, and Physics are housed in the adjacent VanderWerf Hall. There are 11 full-time faculty members in the Psychology Department, including Dr. Lorna Jarvis, who studies the effects of bilingualism on cognitive development, and Dr. David Myers, who is the author of the most popular introductory psychology textbook in use today.

Hope's research program has been recognized by the *U.S. News & World Report* as the leading program in research among liberal arts institutions and 4th among all institutions. Hope was one of only 10 undergraduate institutions that held a NSF Award for Integration of Research and Education and is the only undergraduate institution in the nation with six active NSF Research Experiences for Undergraduates Site Awards. The Beckman Foundation and the Merck Foundation/AAAS have also recognized the program at Hope with awards to support undergraduate research. Project Kaleidoscope (PKAL), a national organization focused on the enhancement of science and mathematics education, identified Hope as a model "Program that Works".

To learn more about Hope College visit our web site at:

<http://www.hope.edu/>

