Thoughts

Louisiana State University
HHMI Professors Program

An Innovative Hierarchy Model

Integrating Research, Education, and Peer Mentoring

Our mission is to improve student comprehension of science and mathematics at all levels of education

Destiny

LSU HHMI PROFESSORS PROGRAM

2005-2006 LSU HHMI GRADUATE STUDENT MENTORS

An LSU HHMI Mentor is...

A wise and trusted person who assumes responsibility for another person, to impart knowledge or skill by example and experience through an exchange of opinions and ideas in order to reach a decision for a plan of action that facilitates increased learning ability.

-Lisa Batiste-Evans, HHMI Program Manager

LSU HHMI Graduate Mentors are graduate students in the STEM areas who are committed to helping undergraduates reach their full potential. They take on Undergraduate Mentors in their research projects and help the students to become effective researchers.

To become an *LSU HHMI Graduate Mentor,* you must be:

- currently pursuing a terminal degree in a STEM discipline
- engaged in at least the second year of a graduate program
- actively engaged in research
- committed to promoting diversity in the STEM disciplines
- interested in involving undergraduates in your research and helping them to achieve their academic goals

Benefits:

- $1,000 per academic year as a supplement for your participation in this project
- Eligible for a budget of up to $100 per student per semester (including summer) for research expenses

Application Process

- As outlined in the pages that follow, develop a proposal for involving STEM undergraduates in your work
- Obtain a statement of support from your major advisor
- Submit all components of the application electronically, as well as delivering six paper copies to the following address:

HHMI Professors Program
Office of Strategic Initiatives
240 Thomas Boyd Hall
Louisiana State University
Baton Rouge, LA 70803

LSU HHMI PROFESSORS PROGRAM

2005-2006 LSU HHMI GRADUATE STUDENT MENTORS

PERSONAL INFORMATION

Name: _____ Social Security: _____ - ____ - _____
Mailing Address: _____ City: _____State: ____ Zip: _____
Primary Telephone: ( ) _____ - _____ Alternate Telephone: ( ) _____ - _____
Fax: ( ) _____ - _____ E-Mail Address: _____

Citizenship Status: [ ] U.S. Citizen
[ ] Permanent Resident – Alien Registration Number: A_____
[ ] Neither U.S. Citizen nor Permanent Resident

Providing gender and ethnicity information is voluntary and will be used in a nondiscriminatory manner, consistent with applicable civil rights laws. The following groups are considered underrepresented in the STEM disciplines: Black (Non-Hispanic), Native American, Hispanic, and Female.

Gender: [ ] Male [ ] Female

Ethnic Background:
[ ] Black, Non-Hispanic [ ] Asian/Pacific Islander [ ] Native American/Alaskan
[ ] Hispanic [ ] White, Non-Hispanic [ ] Other_____

ACADEMIC INFORMATION

Major (e.g., Chemistry, Mechanical Engineering, etc.):

Degree Sought: [ ] M.S. [ ] Ph.D.

No. of Years completed at LSU as a Graduate Student:
[ ] one year [ ] two years [ ] three years [ ] four years [ ] Other, specify _____

Anticipated Graduation Date: _____

Date completed all cumulative exams: _____

Overall GPA at LSU as Graduate Student: _____

Major Advisor:
Name:
Address:
Telephone: ( ) _____ - _____ Fax: ( ) _____ - _____
E-Mail Address:

Your application will not be complete without a statement of support from your major advisor – see Forms "Faculty Mentor Support Form"

PROPOSAL INFORMATION

If your proposal is selected as a winner, may we share it on our website?
[ ] Yes, including your name [ ] We may share the proposal, but not your name [ ] No

How many undergraduates would you be willing to mentor through a research project?
[ ] One [ ] Two [ ] Three

LSU HHMI PROFESSORS PROGRAM

2005-2006 GRADUATE MENTOR PROPOSAL AND APPLICATION

Part I. Mentor Background

1. Why are you interested in mentoring an undergraduate HHMI Professors Program Mentor or (preferred) paired undergraduate HHMI Undergraduate Mentor and a LA-STEM Research Scholar? Please tell us about any experience you have as a mentor, teacher, or leader and your philosophy toward mentoring.

2. Describe your current research in the context of your research group. What are your research goals for the next year? How do they fit into your group's overall goals? What are some real world applications of your research?

3. Describe your career goals, both immediately after graduation and in the long term.

4. Please submit a one-page resume via email to hhmipprogram@lsu.edu.

Part II. Project Proposal

How do you propose to involve one or more undergraduates in your research project? Following the scientific method, please formulate a mini-research project for the undergraduate student(s). Include a time frame and itemized budget for your proposed project. (The HHMI Professors Program may provide a budget of up to $100 per HHMI Undergraduate Mentor per semester).

Part III. Project Information

1. How does your proposed project connect to knowledge gained in undergraduate STEM courses? Are there any particular courses that a student working with you would need to have taken or be enrolled in?

2. What majors and classifications of students would you prefer to work with? What do you expect from your mentees, including the number of hours per week that they will devote to research?

3. How do you plan to evaluate the student(s) during the project and after its completion?

4. How do you plan to evaluate the project itself? What outcomes of this project will be considered successful?

5. What potential do you see in this project for results that could be presented at conferences or published? Will you encourage the undergraduate(s) to present at conferences or otherwise disseminate the results?

6. How will your proposed project engage the student(s) in advanced levels of learning? What do you expect the student(s) to gain from the project in terms of knowledge and skills?

7. Other comments regarding your proposal and application: