PATHWAYS to Health Careers
Howard Hughes Teachers' Initiative 2011:
Program in Biomedical Research

Summer Research Program for Middle and High School Science Teachers
at the University of Cincinnati College of Medicine

Dates: June 6 – July 29, 2011

APPLICATION DEADLINE: April 1, 2011

Introduction
The 2010 Teachers' Initiative: Program in Biomedical Research is designed to
provide middle and high school science teachers with a hands-on research experience and
other experiences that will expose them to biomedical research, promote collaborative
efforts between the College of Medicine and local schools and allow teachers to learn
research techniques that can be transferred to their school laboratories. Funding is
provided by the Howard Hughes Medical Institute. The ultimate hope is that teachers
will carry their experiences back to their classrooms to stimulate their students to pursue
careers in science. A more immediate goal is to establish year round links between
science teachers, secondary school students, and biomedical researchers.

Program Description
Teachers will be assigned to a lab with an active research team and will
participate in an on-going research project for eight weeks. Teachers will learn
methodology that may be adapted to teaching their own students and will bring the
excitement of modern research methodology to their own classrooms.

Teachers will participate in hands-on research activity and will meet weekly with
the program director and the scientific director to discuss their progress and to exchange
ideas and experiences. In addition, teachers will participate in the research seminars,
laboratory meetings, and clinical and research conferences within their own departments.
They will be required to keep laboratory journals/notebooks and to present their work at a
research symposium at the end of the program.
Academic year collaborations may include: Faculty visitation to middle/high school classes to teach science; participation in career days; student mentoring; assisting students with science projects and judging science fairs. Teachers may collaborate with UC faculty on scientific journal articles, manuals and curriculum guides in the life sciences. In addition to student interactions with College faculty within their schools, students may visit the College of Medicine for special tours, demonstrations, lectures and other events. Many other enrichment opportunities are available for faculty, teachers and students.

**Eligibility**

Teachers eligible to participate in this program include those who:

1. Identify themselves as being Native American, African American, Asian American, Hispanic, Pacific Islander, Native Alaskan or Appalachian

   OR

2. Teach a significant number of students from disadvantaged or minority groups

**Support**

The program provides a salary of $5,000 (including fringe benefits) for the eight week summer experience. This salary will be paid at the rate of $15.625 per hour worked. The selected teachers are expected to work an average of 40 hours per week and are expected to be available for the entire eight week period. Some flexibility may be negotiated regarding work schedules.

An additional $500 will be allocated to the research lab in which the teacher will be placed to cover costs of supplies to be used during the project period.

**Selection Criteria**

All teachers meeting the stated eligibility requirements are invited to submit an application. Selection for participation in the program will be based on the following criteria:

- Experience and teaching responsibilities
- Level of interest in participating in a research program
- Ability to stimulate minority and disadvantaged students to pursue scientific careers
- Future plans for continued interaction with the research institution
- Previous research experience

**Application Instructions**

1. Submit online application.

2. Mail the following information together, as a single packet, postmarked by April 1, 2011.

   - Copy of your current curriculum vitae (resume) or academic records.
• Letter of support from an official of your school (principal, lead science teacher, curriculum director, etc.) providing an evaluation of you as a teacher and addressing potential benefits to the school as a result of your participation.

• If applicable, proof of U.S. citizenship

• Completed Application Receipt Form

For additional information contact:
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