



## Middle School Teachers

Join us for a stimulating, three-week,  
summer experience at  
Oregon Health & Science University

- **Observe biomedical research first-hand**
- **Interview research scientists**
- **Increase your understanding of the culture of biomedical research**
- **Develop classroom activities for your students**

**WHAT:** A 3-week experience in the world of biomedical research.

The first week is spent at OHSU's main campus (Marquam Hill) with researchers who work with human subjects. The second week is spent with researchers who work primarily with animals at the Oregon National Primate Research Center (ONPRC), in Beaverton.

**WHO:** 12 middle school teachers each summer. Pairs from the same team or school preferred. Science teacher + non-science teacher pairs strongly encouraged.

**WHEN:**

Applications Open: January 1, 2008  
 Application Deadline: March 21, 2008  
 Notification of selected participants: April 7  
 Orientation meeting: **Saturday, May 10**

Welcome event: **Tuesday, July 1, 2008**  
 TIES Institute: **July 7-25, 2008**  
 2 following-up meetings and 2 classroom visits, to be arranged

*Programs will also be offered in the summers of 2009 and 2010 focused on rural teachers. These will be nine day institutes with housing included.*

**INCENTIVES: You will receive:**

- help developing fun and stimulating science activities for your students
- fellowship of **\$1600** and 1 content credit at Lewis & Clark College
- scientist's support and classroom visit
- option of a presentation by research scientists from the Oregon Zoo and ONPRC, at the Zoo, or a field trip to the ONPRC. (Most schools will be able to attend both, with two participating teachers).

Application deadline: **March 21, 2008**. For more information and to download an application, visit our website at <http://ties.ohsu.edu/> (starting Jan. 1, 2008)

## WHAT TO EXPECT:

**A day in TIES (Weeks 1 and 2):** In the morning get background science information from OHSU professors and TIES staff, and spend time interviewing researchers about their work. In the afternoon, visit your research team and discuss/observe typical lab activities. You might measure body mass, watch behavioral studies, or be introduced to lab technology. Or you might spend the time interviewing and understanding how a lab team works together. After lab visits, you and your partner teacher will have time to debrief and record your experiences.

**A day in TIES (Week 3):** Most of your time is devoted to helping translate your experience back to your classroom. Useful lesson structures are presented by the Northwest Association for Biomedical Research and Lewis & Clark's Classroom Law Project. TIES staff assist as you write a profile of one of your labs and prepare a classroom activity.

You and your teacher partner will be asked to develop a **research profile** about each of the two labs you have visited. These are 3-5 pages, targeted at a middle school audience. You will also be asked to develop a preliminary **classroom activity**, which will take some aspect of your summer experience to your students. You will be expected to conduct your activity and report back on it in the follow-up meetings.

## TIES STAFF:

**Bill Cameron, PhD** - Program Director and Assoc. Professor of Behavioral Neuroscience, OHSU

**Susan Shugerman** - Director, Science Education Opportunities, OHSU

**Diana Gordon** - Public Information Officer at the ONPRC (and former high school biology teacher)

**Kip Ault, PhD** - Professor of Science Education, Lewis & Clark College

**Berk Moss** - District Science Specialist, (Retired) Beaverton Schools

## TIES RESEARCHERS:

Each pair of teachers will work with a team of researchers at the OHSU Marquam Hill campus and on a similar research area with another team at the ONPRC.

You will be working with lab directors, postdoctoral fellows, graduate students and research lab staff. Last year participants were assigned to labs researching topics such as: sleep, obesity, smoking in pregnancy, nervous system development, contraception, and nutrition. **You will be visiting premier researchers working on cutting edge topics.**

Program funded by:



Department of Health and Human Services • National Institutes of Health

Supported by a Science Education Partnership Award (SEPA) from the National Center for Research Resources



***Change can't happen if we only see things one way. That's why diversity is important to who we are. OHSU is proud to be an equal opportunity, affirmative action institution.***