

**The Jackson Laboratory and the University of Maine Center for Science & Mathematics Education Research**

**Spring Semester 2010 Academic Year Science or Math Teacher Research Sabbatical: Application for Admission**

The Jackson Laboratory and the University of Maine, with financial support from The Howard Hughes Medical Institute will offer a semester research internship, previously open to pre-service teachers, to include in-service teachers. The program consists of research at The Jackson Laboratory and a course, taught by UMaine faculty at Jackson, that helps teachers integrate their research experience into their teaching. Teachers receive a \$22,000 stipend for a spring semester internship lasting from mid January until late May 2010. The Lab has a limited number of rooms in a house near the Lab campus available for teachers at a low price. All middle or high school science and mathematics teachers in Maine are invited to apply. Teachers will work in one of the research labs at The Jackson Laboratory for the entire semester on a single research project that they and their mentor scientist identify together. Teachers will read background literature, write a research proposal, conduct the research, and summarize and present findings orally and in a written research paper. The 3-cr UMaine course will explore the pedagogical strategies that help students learn to think independently and will provide opportunities to develop inquiry-based curricula.

A complete application consists of:

(1) Application form; (2) Essay; (3) Transcript of graduate courses, if applicable; (4) three Letters of Recommendation submitted by Oct. 30, 2008. If at all possible, please return these materials as one package.

Name:

School:

School address:

School Telephone Number:

Home address:

Home Telephone Number:

Years of teaching, subjects taught, and major subject of teaching:

Social Security #:

Please note: Employees and research interns working anywhere at The Jackson Laboratory may not have pet rodents at home, even if the rodent is cared for by someone other than yourself. If there is a pet rodent where you live, and you wish to participate in the research internship program, it will be necessary for you to remove the rodent from the home for the duration of the program.

**Research Interests:**

A description of the Laboratory is at [www.jax.org/about/index.html](http://www.jax.org/about/index.html) and research is at [www.jax.org/research/research\\_areas.html](http://www.jax.org/research/research_areas.html). Please list four research areas of interest in the order of your preference.

1st

2nd

3rd

4th

Most, but not all, research projects at The Jackson Laboratory involve the use of laboratory mice. Please indicate your preference for working with laboratory mice by circling one of the four below.

No preference

Prefer project involving lab mice

Prefer project not involving lab mice

Will not work on project involving lab mice

Note: The Jackson Laboratory complies with government regulations and guidelines for the care and use of vertebrate animals in research and training. The Laboratory's Animal Care and Use Committee approves all student projects involving animals, and research interns who work with animals attend training sessions before handling animals. Many, but not all, such projects involve invasive techniques and euthanasia.

**Essay:**

Please provide concise answers to the following (double-spaced, 3-page maximum):

Describe your qualifications for participation in the program. Include examples of any specific teaching experiences in teaching and teaching areas you particularly want to enhance. List previous programs and courses that included hands-on laboratory experience. (Lab experience is not a requirement for admission).

Why do you want to attend this program?

Explain why you chose the Research Interests, including any strong preferences you have for or against working in any specific area.

Explain why you prefer (or do not prefer) to work with laboratory animals. This information will be used as a guide for assigning students to a project. We will make every effort, but cannot guarantee to assign teachers to projects that meet their stated preferences.

Describe your teaching and career goals and your reasons for pursuing them.

What do you do in your spare time?

**Signature of Teacher:**

**Date:**

**Submit by Oct. 15, 2008 to:**

Leisa Preble

The Center for Science and Mathematics Education Research

The University of Maine

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