I have the following positions open this coming year, one for this spring and the other for fall. Please contact me if you are interested in applying for either.

GRADUATE ASSISTANTSHIP (MS OR PHD)

CLIMATE CHANGE EFFECTS ON MYXOZOAN DISEASE

Start date: Spring 2010

Duties: This research involves development of a predictive model for how climate change will affect disease caused by the parasite in Pacific salmon and is part of a long-term project on *Ceratomyxa shasta* in the Klamath River. Field studies will examine how fish and parasites interact in coldwater refuges and develop a profile of parasite abundance with temperature and flow. Laboratory studies will test effects of different temperature regimes on disease in both hosts and use this information to develop a model for predicted climate effects. In addition, the candidate is expected to be able to travel and work at field sites, to work well in a group, to have good record keeping skills and to assume an active role in the lab. Students are expected to develop a thesis, take graduate courses, present their results at regional, national and international meetings and publish results in high quality journals.

Requirements: B.S. in biological sciences. Familiarity with molecular biology, salmon biology, modeling and basic laboratory skills are assets but not required.

To apply: Please send an application letter, resume, university transcripts and contact information for three references to:

   Jerri Bartholomew  
   Dept. of Microbiology, Nash Hall 220  
   Oregon State University  
   Corvallis, OR 97331-3804  
   phone: 541-737-1856  
   FAX: 541-747-0496  
   bartholj@orst.edu  
   http://microbiology.science.oregonstate.edu/fac_bartholomew

Admission to the graduate program is a prerequisite for the appointment http://oregonstate.edu/admissions/graduate.php. The selected applicant will apply to the appropriate departmental program through the Oregon State University Graduate School. Oregon State University is an equal opportunity employer.

Deadline: Positions open until suitable candidates are found, but please contact asap.
ANTIFUNGAL COMPOUNDS FOR CONTROL OF Batrachochytrium dendrobatidis

Start date: September 2010

Duties: The research will investigate the efficacy of using a bacterial microbe as a strategy for resisting Batrachochytrium dendrobatidis infection in the Chiricahua leopard frog (Rana chiricahuensis).

Batrachochytrium dendrobatidis (Bd) is a chytrid fungus that affects the skin of amphibians and has been associated with amphibian declines in some areas. Peptides produced by skin-dwelling bacteria seem to offer resistance and there is evidence that bacterial baths can be used to increase this resistance in captive frogs. The Chiricahua Leopard Frog is listed as threatened under the Endangered Species Act. The objective of this study is to determine if the bacterium J. lividum and its metabolite, violacein, are effective in preventing chytridiomycosis in the Chiricahua Leopard Frog. This research will help managers decide whether to pursue using bacteria on the Chiricahua Leopard Frog as a mechanism to fight Bd in captivity or the wild.

The candidate will work with captive animals, culture bacteria and fungus and conduct infection trials. In addition, the candidate is expected to work well in a group, to have good record keeping skills and to assume an active role in the lab. Students are expected to develop a thesis, take graduate courses, present their results at regional, national and international meetings and publish results in high quality journals.

Requirements: B.S. in biological sciences. Familiarity with molecular biology, amphibian biology, small animal handling and basic laboratory skills are assets but not required.

To apply: Please send an application letter, resume, university transcripts and contact information for three references to:

Jerri Bartholomew  
Dept. of Microbiology, Nash Hall 220  
Oregon State University  
Corvallis, OR 97331-3804  
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Deadline: Position open until suitable candidate is found, but please contact asap.