

Microbial Ecology Research Opportunity Summer 2015

Two Research Experience for Undergraduates (REU) Internships Available!

The Zeta Hunter Project:

- ▶ Hydrothermal vent microbial communities from Mariana Arc and Backarc Volcanoes will be used for the study of iron-oxidizing bacteria and the microbial iron cycle.
- ▶ Microbial ecology projects will focus on using state-of-the-art molecular microbiological techniques in addition to classical cultivation and enrichment culture strategies to address questions in community structure and diversity.
- ▶ Advanced training offered in molecular techniques such as environmental DNA extraction and purification, NextGen DNA Sequencing, Quantitative-PCR, T-RFLP Metagenomics and extreme culturing techniques.
- ▶ Throughout the summer, we will focus on such skills as keeping good research notes, troubleshooting experiments, and organizing data. In addition, students will read and discuss papers relevant to their projects and to the Zeta Hunter project in general.

Available Resources per Intern: Summer stipend (40 hrs/wk x 12 wks x \$12.00/hr = \$5,760); tentative effective dates, June 15th through Sept 15th; any and all research expenses included. (May consider half-time positions at 20 hrs per week, if necessary.)

Requirements:

- ▶ You must have an excellent academic record;
- ▶ be strongly motivated to do well and able to work independently;
- ▶ be able work carefully and accurately;
- ▶ be either a U.S. citizen or permanent resident and NOT to have received your Bachelor's degree prior to the end of the summer.

To Apply: Please submit (1) a cover letter explaining your interest in this internship and any academic or career goals; (2) a resume detailing your past work experience, including any lab, field, or other research activities; (3) an academic transcript (unofficial copies are acceptable) showing courses and grades to date, include a list of your most recent course work that might not be covered; (4) names and contact information for at least two professional references.

Email application **asap** to (deadline June 5th):
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