

Summer 2014 Opportunity for LMC Biology Students **Join the LMC Bioscience Research Team!**

Are you looking for an exciting summer job where you will be challenged to ask big questions and develop awesome science skills while having fun? Have you ever wondered what a career in biological science research would be like?

Conduct Bioscience Research at LMC!

Who: LMC Biology students working as a team with Professor Liubicich

What: Research project: Exploring the impact of endocrine disruptors on freshwater sponge development. Freshwater sponges are a potentially important bioindicator for changes in our waterways. We will work together to examine the effects of endocrine disruptor chemicals on tissue morphology and gene expression during sponge development. We will also organize a student research symposium for Fall 2014 at LMC. Research team members will earn \$10/hr

When: June 9th - July 31st 2014

9am to 4pm, Monday – Thursday, with some Friday field trips around the Bay Area

Where: LMC Campus, Pittsburg, CA

The culmination of the research program will be a presentation of student research at the first annual **Los Medanos College STEM (Science, Technology, Engineering, Math) Research Symposium** during the Fall 2014 semester. This event will highlight the scientific work students completed as part of on or off campus internships, research programs, or voluntary laboratory work. This Symposium will provide students the opportunity to share what they learned with other students and inspire others to follow in their footsteps.

ADDITIONAL JOB DETAILS

Duties in the Lab

- learn bioscience techniques to conduct experiments using freshwater sponges as a model system
- participate in journal club style discussions of primary literature
- work together as a team to conduct experiments
- follow all safety procedures and lab protocols

Duties for organizing the STEM Student Research Symposium:

- research similar symposia elsewhere (2yr, 4yr institutions)
- identify reasonable format for the LMC symposium
- establish a schedule of events for the symposium (with faculty advisor)
- help advertise/recruit LMC student participation – Summer / Early Fall Semesters
- coordinate marketing materials for the symposium

APPLICATION

To be considered for a position on the research team, students must meet the following requirements:

- ✓ *earned a passing grade in Bio20 and Bio21 (may be currently enrolled in Bio21 to apply)*
- ✓ *currently in good academic standing at LMC and are enrolled in at LMC for Spring or Fall 2014*
- ✓ *intend to transfer to a 4 year institution as a STEM (science, technology, engineering, math) major*
- ✓ *available to work full-time for the duration of the research project (dates listed above)*
- ✓ *willing to serve on a leadership team to organize the Fall 2014 LMC STEM Student Research Symposium*
- ✓ *willing to present your research findings at the LMC student research symposium (Fall 2014)*
- ✓ *willing to travel to an occasional site visit around the Bay Area (academic labs, biotech, museum)*
- ✓ **submission of a completed application by 3pm on April 25th**
- ✓ **available for a 30minute interview at LMC on Friday, May 2nd**

Please submit your completed application with the following documents to Margie Ahola (SC213) by **Friday, April 25th at 3pm.**

1. Application Form
2. Transcripts (unofficial) for completed college-level coursework
3. Essay
4. Recommendation forms from 2 faculty (to be directly submitted by faculty to Margie Ahola)

Please contact Danielle Liubicich (dliubicich@losmedanos.edu) with any questions regarding this opportunity or application.

APPLICATION FORM

Name _____ Email _____

Student ID _____ Phone _____

Major _____

College Level STEM Courses Completed _____

STEM GPA _____

Do you intend on transferring to a 4-year institution as a STEM major? Yes No
If yes, when do you plan on transferring? (semester) Fall Spring, 20____

Have you participated in scientific research previously? Yes No
(including paid/unpaid internships, volunteer work)
If Yes, please describe briefly: _____

Have you applied for other internships for summer 2014? Yes No
If yes, please list: _____

Please describe any jobs or extracurricular activities in which you currently participate: _____

Please list any scheduling conflicts you may have or any scheduling concerns you have with participating full time during the dates listed.

Contact information for Faculty References

Reference 1

Name _____ Position _____
Email _____ Phone _____

Reference 2

Name _____ Position _____
Email _____ Phone _____

ESSAY

Please type one page or less and submit your essay with this form.

Why are you excited to conduct independent scientific research? Please explain why this opportunity sounds excellent to you and how participating in this program will help you reach your academic and career goals.

If selected, I understand that I will be expected to work full-time during the dates/hours described in this application. I am also expected to present my findings at the LMC STEM Research Symposium in Fall 2014 and understand that I will play an important role organizing this conference.

Signature _____ Date _____

Please submit all application materials to Margie Ahola (mahola@losmedanos.edu) in the STEM office (SC213).