Office of Education & Outreach Programs

SUMMER FUN AND EMPLOYMENT

WHO: All interested graduate students (girls and guys), looking for something completely different as a science mentor or volunteer

WHAT: 2011 SUMMER OCEANOGRAPHY CAMPS FOR GIRLS
A three-week camp for teen-aged girls to experience and explore the world of the oceans! Activities include field trips, a research cruise, research projects & lots of fun.
Visit our website, http://www.marine.usf.edu/girlscamp

WHEN: Local camp dates are June 20 – July 8, 2011
Mandatory Staff Training begins June 1, 2011

WHERE: College of Marine Science & Clam Bayou Marine Education Center

HOW TO APPLY: 1) Complete and return OCG Science Mentor application form located at camp website by April 10th
2) Enroll in summer course, Experiential Learning in Marine Science

WHAT YOU GET:
• An opportunity to encourage & expand a teen’s interests in math & science via hands-on, inquiry learning opportunities
• Serve as a role model in science
• A great chance to gain teaching experience
• A chance to participate in some great FIELDTRIPS ($80 for each fieldtrip day)
• A chance to earn a little extra cash by leading a lab activity ($80 for each lab session = 2 consecutive 1/2 day mornings)
• A chance to earn extra cash with a summer appointment for 20/hr/week; minimum salaries $15.32 (masters students) and $17.24 (doctoral students)

QUESTIONS??? Call 727-553-3921 or Email greely@marine.usf.edu

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Science Mentor Application

Personal Information

Name: ____________________________
Address: ____________________________________________________________

Email Address: ________________________________________________________

Phone: ____________________________ Cell Phone: __________________________

How long at CMS: ____________________________ Degree Seeking: Masters ____
Doctorate ____

Date of Birth: ____________________________ Have you ever worked at OCG? ___

Yes ___ No ___

Emergency Contact

Name: ____________________________ Relationship: ____________________________
Phone: ____________________________ Cell Phone: ____________________________

Email Address: ____________________________

Major Field of Study:

Faculty Advisor:
Please answer the following questions

1. How did you find out about the program?

2. List 3 reasons why you want to work at the Oceanography Camp for Girls?

3. Share any previous experience you have had working with youth or teaching.

4. How do you feel that the camp and campers will benefit from your participation?

5. What do you expect to gain from the OCG experience, be specific?

Please scan/upload a current resume to this application

Community Service Opportunity
Would you like to participate in other Education and Outreach activities after camp, if opportunities become available?

◇ Yes ◇ No
**OCEANOGRAPHY CAMP ACTIVITIES SIGN-UP SHEET**

*Refer to attached Calendar for Specific Dates*

Name: ___________________________  Major Advisor: ___________________________

Email: ___________________________  Phone: ___________________ (w)  ___________________ (h)

Please check the activities that you are interested in participating. We will let you know by **MAY 10th** the activities, dates/times for which you have been “selected.” Often more people sign-up for **OCG** than we can accommodate, so we will make every effort to meet your request for participation.

For **LEADING FIELDTRIP ACTIVITIES** you will be paid **$80/day**, training is provided for all field trip leaders; if space allows you may also participate on **FIELDTRIPS** as a **VOLUNTEER**.

For **LEADING A LAB** you will be paid **$80** for two consecutive 1/2-days LAB SESSION (max. 2 paid students per lab). You will also need to be available for questions the last Thursday and/or Friday of camp to address questions from campers as they develop their Poster and Power Point presentations.

**OCEANOGRAPHY CAMP FOR GIRLS CAMPER-PARENT ORIENTATION**

**THURSDAY, May 19 (5:30-7:30)**

**MANDATORY OCG STAFF MEETING**

**TUESDAY, May 17 (3:30-5:00)**

**MANDATORY OCG TRAINING WEEK FOR FIELDTRIPS AND ACTIVITIES**

**JUNE 1-18 (8:00A-2:00P)**

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**WEEK 1- CONCEPT ROTATION and THREE CONCURRENT FIELDTRIPS**

**TUESDAY**

1) Concept Rotation to prepare campers for the **OCG** experience (8:00A - 4:00P)

**WEDNESDAY**

1) Shell Key Ecology, Conservation and Canoeing  (8:00A - 4:00P)  
2) Ft. DeSoto Biology and Chemistry of Marine Habitats  (8:00A - 4:00P)  
3) Coastline Cruise Sampling techniques & data collection  (8:00A - 4:00P)

**THURSDAY**

1) Shell Key Ecology, Conservation and Canoeing  (8:00A - 4:00P)  
2) Ft. DeSoto Biology and Chemistry of Marine Habitats  (8:00A - 4:00P)  
3) Coastline Cruise Sampling techniques & data collection  (8:00A - 4:00P)

**FRIDAY**

1) Shell Key Ecology, Conservation and Canoeing  (8:00A - 4:00P)  
2) Ft. DeSoto Biology and Chemistry of Marine Habitats  (8:00A - 4:00P)  
3) Coastline Cruise Sampling techniques & data collection  (8:00A - 4:00P)

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WEEK 2 - FIELDTRIPS AND LABS (1 LAB SESSION = 2 consecutive half-day mornings)

MONDAY, Lab Session Day 1 (8:30A - 12:00P)
- Lead a Lab Activity to demonstrate on-going research
- Field trip Wrap-up Activity (Data Processing) (1:30P-4:00P)

TUESDAY, Lab Session Day 2 (8:30A - 12:00P)
- Continuation of Day 1 Lab research activities

WEDNESDAY (8:30A-4:00P)
- Caladesi Island Barrier Island Geology & Physical influences
- Coral Reef Education and Cake Preparation (1:30A-4:00P)

THURSDAY (8:30A-4:00P)
- Caladesi Island Barrier Island Geology & Physical influences
- Coral Reef Education and Cake Preparation (1:30A-4:00P)

WEEK 3 NO FIELDTRIPS ONLY LABS (1 LAB = 2 consecutive half-day mornings)

MONDAY, Lab Session Day 1 (8:30A - 12:00P)
- Lead a Lab Activity to demonstrate on-going research

TUESDAY, Lab Session Day 2 activities (8:30A - 12:00P)
- Continuation of Day 1 Lab research
- Caladesi Wrap-up of Field trip data (1:30P-4:00P)

THURSDAY FISH BANKS (Conversation Activity) (8:30P-12:00P)

FRIDAY FINAL PRESENTATIONS
- Help campers prepare Power Point presentations & posters (9:00A-4:00P)
- Final CELEBRATION and Presentations (5:30P-7:30P)

Other employment opportunities:

If you are interested in working with the Office of Education & Outreach during the academic year, provide a CV and statement about why you would like to be involved in future programs. Activities include participating in fieldtrips, teacher workshops, science fairs judging, mentoring, and other activities. Your name will be added to an email list and you will be invited to participate in activities throughout the school year as opportunities arise.

Please visit our website for a fun virtual camp experience.

http://www.marine.usf.edu/education-outreach

Thanks for your time and interest!

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What should a research lab experience look like?

**Lab Sessions** should be designed to introduce participants to on-going ocean research concepts. Activities should be interactive, hands-on and participant-driven. Lab experiences should to the extent possible (e.g. safety, time, etc.), provide participants experience in research methodology, problem solving and/or instrumentation. Participants should be able to "get their feet (and/or hands) wet" by being active players in the research experience not passive observers. Be as creative as you would like! Research can be lab or field-based or a bit of both. We will provide any necessary "extra" supplies you may need and provide coaching regarding effective communication with the teenagers.

Ask other graduate students who have led OCG labs about their experiences.

If you are a 1st-time camp mentor and interested in designing a lab, one way to begin establishing your comfort level is to shadow a senior instructor the first lab sessions. Another option is to co-teach a lab in your research field with a veteran instructor. By the second lab session you may be ready to fly solo.

**Examples of labs that have been offered in the past include:**

- remote sensing from a computer and a swimming pool,
- a global comparison of fish and plankton ecology,
- demonstrations of physical oceanography concepts (density, Coriolis, circulation, etc.),
- ocean color using optics, fluorometry and lasers,
- PCR & DNA microbes in water,
- global warming, marine mammal behavior, red tide ecology,
- aquarium maintenance and quarantine procedures,
- sedimentology and beach profiling,
- ocean floor from space, and paleo-Oceanography

As a lab leader you will need to guide the campers in "making sense" (learning) out of the research experience. Assist them in self-reporting what they learned, formulating what questions they were asking, how they answered those questions, and what conclusions they can draw. It is equally important to make connections with your research and big picture concepts, especially as related to other disciplines, skills, and society.

Keep in mind the campers will make a final presentation of their research experience on the last day of camp so they will need to articulate their experience both verbally and in poster format.

*If you would like to lead a lab session please complete the attached 1-page description of your lab ideas and any anticipated supply needs. Please return completed Lab Description Form to Teresa Greely mailbox.*

**Please join us for final presentations of labs the last Friday of camp from 6:00p-7:30p.**
Lab Description
(Use your most convincing marketing strategies to interest participants in your research)

LAB LEADER AND OTHER INSTRUCTORS: ________________________________

TITLE AND 1-LINE ADVERTISEMENT: ________________________________

________________________________________________________________________

LOCATION: (room number) ___________ (phone number)_____________________

SUPPLIES YOU WILL USE IN YOUR LAB: ________________________________

SUPPLIES THE CAMP SHOULD PROVIDE: ________________________________

DESCRIPTION OF THE RESEARCH CONCEPTS/IDEAS YOU PLAN TO DELIVER:

________________________________________________________________________

________________________________________________________________________

Why should we care? Or how does this research or question relate to the rest of the world
(society, other scientists, the planet or universe, as we know it)?
________________________________________________________________________
________________________________________________________________________

Methodology to be implemented: ________________________________

________________________________________________________________________

Specific instrumentation utilized (computers, lasers, microscopes, and spectrophotometer):
________________________________________________________________________

What will be the take home message (specific concepts or ideas that will be learned)?
________________________________________________________________________

What handouts or resources will participants leave your lab with?
________________________________________________________________________

Will you be available the last week of camp on Thursday afternoon and/or Friday afternoon
if campers have last minute questions about their lab and poster presentation? YES____NO ____
Times and location ________________________________

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