

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**

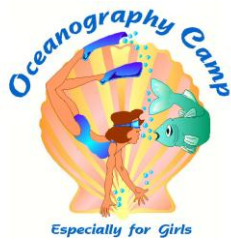
WHERE: College of Marine Science & Clam Bayou Marine Education Center

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



Oceanography Camp For Girls

Science Mentor Application

Personal Information

Name: _____

Address: _____

Email Address: _____

Phone: _____ Cell Phone: _____

How long at _____ Degree Seeking: Masters _____

CMS: _____ Doctorate _____

Date of Birth: _____ Have your 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) _____

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) _____

WEEK 2- FIELDTRIPS AND LABS (1 LAB SESSION = 2 consecutive half-day mornings)
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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		
Continuation of Day 1 Lab research activities	(8:30A - 12:00P)	_____
WEDNESDAY		
Caladesi Island Barrier Island Geology & Physical influences	(8:30A-4:00P)	_____
Coral Reef Education and Cake Preparation	(1:30A-4:00P)	_____
THURSDAY		
Caladesi Island Barrier Island Geology & Physical influences	(8:30A-4:00)	_____
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!

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 _____