**Title**  
GIS MAPPING & DATABASE INTERNSHIP

**Summary**  
This position will provide interns with Work Experience in the area of geographic information system (GIS mapping) and database management.

**Major Tasks**  
**Office Work:**
- Design and document database architecture. Perform Data Modeling in support of this task
- Build database scheme, tables, procedures and permissions
- Maintain and update existing Reserve databases
- Develop and maintain geographic information system databases, layers and maps that are pertinent to the South Slough NERR

**Field Work:**
- Establish the benchmarks needed to complete local vertical control network for the sentinel site effort.
- This would involve using GIS maps to identify where benchmarks are needed, physically locating those sites and establishing the benchmarks, mapping them using GPS and GIS, and establishing the elevations at those benchmarks using the RTK GPS survey equipment from NOAA ERD and integrating it all into GIS maps

**Benefits to Intern**

Interns will be exposed to both an Oregon State office and a protected reserve environment with a host of learning opportunities ranging from local outdoor and marine science to public and office communications. GIS Mapping & Database interns will gain work experience in the areas of:
- ESRI ArcView software and GIS mapping techniques;
- Microsoft Access, database design, data modeling and reports.

Upon completion of the Work Experience program, interns will receive a written reference from reserve staff to be used for future employment and/or a college resume.

**Desired Skills**

This position is ideal for a person who has proficient knowledge of computers and software programs. Knowledge of Microsoft Access and ESRI ArcView software is a plus. Ability and willingness to work outside and carry the heavy benchmark materials is desired.

**Time Commitment**
12 weeks @ 6 hours/week *plus training*  
*summer internships may also be available

**Work Station**
South Slough ECOS Lab (on the Oregon Institute of Marine Biology campus)
Evaluation
The mentor for this position is South Slough’s Monitoring Coordinator or Research Coordinator. S/he will provide formal feedback to the intern on a weekly basis and less formally on an as needed basis. This is an informal relationship that allows the student to ask questions and the mentor to make suggestions. A final verbal and written evaluation will be conducted by the program supervisor with input from the intern’s mentor and other staff and volunteers who have worked with the intern.

Contact
Maggie Allen, Work Experience Program Developer
(541) 888-5558 ext. 23
Maggie.allen@state.or.us

Supervisor
Robin Elledge, Operations Manager

Mentor Commitment
The SSNERR Operations Manager will serve as the supervisor for all interns in the Work Experience Program. However, training and monitoring of the interns’ daily activities and performance feedback are the responsibility of the intern’s mentor. The mentor identified for this position is the SSNERR Monitoring Coordinator or Research Coordinator. The commitment of the SSNERR mentor is as follows:

- Mentor will provide training and/or coaching in the areas of 1) Database architecture, design, and modeling 2) Reserve-specific database maintenance 3) GIS & Mapping;
- Mentor will assign daily work for the intern to complete;
- Mentor will review the intern’s work for accuracy and conformance to agency policies and procedures;
- Mentor will provide intern with daily feedback regarding his/her performance and provide evaluative information to the Program Supervisor upon request and upon completion of the program.