

**JOB DESCRIPTION**  
**WOODS HOLE GROUP**

**Date:** September, 2018

**POSITION:** Coastal Engineer/Modeler

**ROLE:** Project-oriented member of Coastal Engineering & Modeling Team, focused on climate change planning, wetland restoration, and shore protection projects. Analysis of coastal, oceanographic, and environmental processes, including numerical modeling for project applications and development of engineering design alternatives. Prepares reports of completed work and contributes to new proposal efforts. Ability to work independently, support project management, and provide technical leadership.

**DUTIES AND RESPONSIBILITIES:** The Coastal Engineer/Modeler will have the following duties and responsibilities:

- Coastal, oceanographic, and environmental processes and data analyses
- Numerical model applications
  - Ocean-scale wave, circulation, and storm surge
  - Estuary & wetland hydrodynamics
  - Waves, sediment transport and shoreline/beach profile change
  - Contaminant transport and fate
  - Water quality
- Support for field data collection and analysis
- Evaluation of shore protection structures, beach nourishment, habitat restoration and climate change adaptations
- Report writing
- Write proposals and estimate costs for potential projects
- Work successfully with other motivated team members to achieve project goals
- Assure proper archiving and documentation of program data
- Report status of projects to supervisor and completes project assignments within budget and schedule constraints
- Prepare and make public presentations

**SUPERVISION EXERCISED**

Depending on experience level may include mentoring of junior level staff.

**SUPERVISION RECEIVED**

From senior level scientist or engineer

**PERFORMANCE EVALUATION:** Performance evaluation will be based on:

- Accuracy of analysis and design work
- Completion of projects at or below budget
- Quality of reports and proposals
- Teamwork and ability to work effectively with colleagues including mentorship
- Client satisfaction with program and project results
- Ability to contribute to new business opportunities



## **QUALIFICATIONS**

0-5 years of related experience. Masters in Ocean/Coastal Sciences/Engineering or closely related field is required. Demonstrated capabilities in numerical modeling, data analysis and courses in quantitative coastal processes are highly desirable. A high level of proficiency in computing, including numerical model source codes, HPC Linux environment, Python, Matlab, as well as business software including MS Word, Excel, and PowerPoint. Excellent English oral communication, technical writing, interpersonal, and teamwork skills are required, along with proof of eligibility for employment in the United States.

### **GENERAL INFORMATION:**

- The position is a full time, salaried position.
- The Woods Hole Group offers a full-time benefit package that includes a 401(K) program, health insurance benefits, and competitive vacation and sick time policy.
  - This position is based out of Bourne, MA.

Individuals who succeed at Woods Hole Group are pleasant, hard-working, self-starters who share our passion for innovation and commitment to high quality work. Further information about the Woods Hole Group, Inc. can be found on our website [www.woodsholegroup.com](http://www.woodsholegroup.com)

The Woods Hole Group, Inc. offers a competitive salary and benefits package. If this opportunity matches your experience and career visions, please send resume outlining education, work experience and salary history to:

**Matt Shultz**  
**The Woods Hole Group, Inc.**  
**107 Waterhouse Drive**  
**Bourne, MA 02532**  
E-mail: [mshultz@woodsholegroup.com](mailto:mshultz@woodsholegroup.com)

AN EQUAL OPPORTUNITY EMPLOYER