Student Service Contractor: Mapping High Marsh Along the Gulf of Mexico Coast  
U.S. Geological Survey, Wetland and Aquatic Research Center

We anticipate hiring a Student Services Contractor to assist with a remote sensing project to map high marsh along the northern Gulf of Mexico using satellite imagery and lidar datasets. This student contract position is open to: (1) current undergraduate student with two or more years of classes; (2) a current graduate student; or (3) a recent graduate with a B.S. degree (i.e., graduated within the last year). This Student Services Contractor will help with the following activities: (1) geospatial data compilation; (2) data management; (3) data analysis with geospatial data and satellite imagery; (4) figure and table preparation; and (5) verbal and written communication of results. In addition to the project described above, the student may also assist with other projects on an ad-hoc basis. The Student Services Contractor will work with Nicholas Enwright (https://www.usgs.gov/staff-profiles/nicholas-enwright).

In order to be eligible, applicants must have the status listed above and be eligible to work in the U.S. as a U.S. citizen or U.S. permanent resident. The applicant should have an interest and experience in remote sensing and geospatial analyses. Pay will be commensurate with education.

To apply for this position, please send the following information to Nicholas Enwright via email (enwrightn@usgs.gov):

1. A cover letter explaining their interest in the position
2. A resume or CV
3. A sample geospatial-focused report or product, particularly one with remote sensing components (e.g., a class paper or writing assignment)

Please send this information in an attachment via email with the following subject line: Application- Student Research Opportunity. A single attachment is preferred.

Review of applications will begin immediately and continue until the position is filled.

For questions, contact Nicholas Enwright (enwrightn@usgs.gov)

Statement of Work for Student Services Agreement

Project Description:
The U.S. Geological Survey, Wetland and Aquatic Research Center (WARC) first implemented geographic information systems (GIS) in 1980 to assist in monitoring the nature and extent of wetland habitat changes. From this initial effort, WARC now uses remote sensing, GIS, and other computer-based technologies to address a wide range of natural resource related issues. Through the years, WARC has engaged with partners in projects which bridge the gap between scientists and natural resource managers. Many of these projects include a spatial information component requiring generation of new data via remote sensing or application of GIS and spatial analysis techniques.
The candidate will assist with a remote sensing project to map high marsh along the northern Gulf of Mexico using satellite imagery and lidar datasets. Assistance to other projects may occur on an ad hoc basis.

**Types of Services Required:**
The candidate will work under the guidance of a Geographer with the USGS to produce a remote sensing classification of high marsh along the northern Gulf of Mexico. This Student Services Contractor will help with various project activities including, but not limited to: (1) geospatial data compilation; (2) data management; (3) remote sensing; (4) working with python scripts; (5) geospatial analysis; (6) figure and table preparation; and (7) verbal and written communication of results.

**Required Expertise/Skills:**
In order to be eligible, applicants must have either be a current undergraduate or graduate student or have graduated with a degree within the past year in Geography, Geographic Information Systems, Environmental Sciences, Geology, or a related field. The applicant should have experience in the following areas: (1) geospatial data compilation; (2) data management; (3) remote sensing; (4) working with python scripts; (5) geospatial analysis; (6) figure and table preparation; and (7) verbal and written communication of results. Preference will be given to candidates with experience with of Esri ArcGIS (version 10.X is preferred) and ERDAS IMAGINE and classification of satellite imagery.

**Description of Working Conditions:**
Work is performed primarily in an office environment and includes long hours of working at a computer.

**Compensation:**
Compensation is commensurate with the level of education and experience.

**Principal Duty Station:**
The applicant will collaborate with scientists at the USGS Wetland and Aquatic Research Center (Lafayette, Louisiana). The student will conduct their work at the USGS Wetland and Aquatic Research Center.