Florida International University is classified by Carnegie as a R1: Doctoral Universities - Highest Research Activity and recognized as a Carnegie engaged university. It is a public research university with colleges and schools that offers 196 bachelor's, master's and doctoral programs in fields such as engineering, computer science, international relations, architecture, law and medicine. As one of South Florida’s anchor institutions, FIU contributes almost $9 billion each year to the local economy. FIU is Worlds Ahead in finding solutions to the most challenging problems of our time. FIU emphasizes research as a major component of its mission. FIU has awarded more than 220,000 degrees and enrolls more than 54,000 students in two campuses and three centers including FIU Downtown on Brickell, FIU@I-75, and the Miami Beach Urban Studios. FIU’s Medina Aquarius Program houses the Aquarius Reef Base, a unique underwater research facility in the Florida Keys. FIU also supports artistic and cultural engagement through its three museums: Patricia & Phillip Frost Art Museum, the Wolfsonian-FIU, and the Jewish Museum of Florida-FIU. FIU is a member of Conference USA and more than 400 student-athletes participating in 18 sports. For more information about FIU, visit http://www.fiu.edu/.

Senior Engineering Technician (Environmental Instrumentation & Communication) - 527647

Job Summary:
Leads in the design, construction, operation, and maintenance of scientific instruments and systems for the Aquarius Reef Base underwater laboratory and other FIU locations within Florida serving a network of marine environmental instrumentation facilities.

- Leads in the design, construction, fabrication, installation, operation, and maintenance of scientific instruments and systems that includes moored buoys, eddy covariance towers, and at the Aquarius Reef Base underwater laboratory. Deploys and retrieves oceanographic instruments from marine vessels.
- Serves as the technical lead for environmental instrumentation at the Aquarius Reef Base, as well as other sites within the Florida Keys National Marine Sanctuary, Everglades National Park through the Florida Coastal Everglades LTER, and in Biscayne Bay.
- Works closely with the Principal Investigators (PI) and research staff in writing reports and scientific publications. Defines material properties, develops concepts, verify prototypes.
- Assists the PI and project personnel with development of research procedures. Serves as a liaison among Pls and project personnel.
- Maintains and prepares records and reports and assists with presenting technical evaluations and plans.
- Installs, maintains, relocates and decommission meteorological towers and equipment. Installs and maintains instruments including current measurement systems; water level sensors; meteorological, oceanographic, and water quality sensors; data collection platforms; telemetry, etc.
- Performs routine and unscheduled maintenance activities to inspect, test and replace instruments or equipment.
- Develops and ensures field safety procedures are followed.
- Monitors data acquisition, system and instrument/equipment performance. Investigates and resolve problems in design, engineering, fabrication, system operations, and installation procedures.
- Manages liaisons with partner agencies about marine environmental data, including the National Oceanic and Atmospheric Administration, Florida Department of Environmental Protection, National Park Service, Environmental Protection Agency, etc.
- Manages environmental permitting and reporting for all deployed instrumentation
- Queries instruments and directs sampling location and timing changes in support of scientific research by FIU faculty and collaborators.
- Ensures quality and reliability of data generated by environmental instrumentation.
• Ensures data are properly reported to and cataloged by on-line data repositories
• Performs essential duties in any emergencies such as hurricanes, storms, and/or any other university emergency closing. The employee is expected to be available to report to work as needed during university emergency closing with appropriate notification of a department administrator.

Minimum Qualifications:
Bachelor's degree in Science or Engineering or related field and 4 years of relevant experience or Master's degree Science or Engineering or related field and 2 years of relevant experience.

Departmental Requirements:
• Ability to work outdoors in remote land and ocean locations in South Florida's extreme climate and dense mosquitos
• Ability to work in small boats and under water

Desired Qualifications:
• Advanced degree in Oceanography, Environmental Sciences, Biology, Engineering, or a closely related field.
• Knowledge of field meteorology equipment, including eddy covriance instruments for measuring CO2 and methane flux
• Knowledge of oceanographic research instruments including CTDs, pH and pCO2 sensors, ADCPs, etc.
• Experience maintaining Meteorology and oceanographic instruments in the field.
• Experience calibrating and troubleshooting instrumentation, and QA/QC procedures.
• Knowledge of laboratory instrumentation for measuring pH, alkalinity, and total inorganic carbon.
• Knowledge of data collection, storage and telemetry from field instrumentation
• Experience interfacing environmental data streams with online databases
• Ability to operate small boats
• Scientific and or commercial working scuba diver status
• Ability to manage data using R and database software

Job Category:
Administrative

Advertised Salary:
$90,000 - $100,000

Work Schedule:
• Begin time: 8:30 AM
• End time: 5:00 PM

Working Condition(s):
• Operating University Vehicles (all types)
• Able to work flexible hours in the often-harsh environment of South Florida
Pre-Employment Requirements:

- Extended Criminal Background Check
- Driver's License Check

Other Information:

- Ability to work evenings and weekends.
- Ability to travel locally and nationally.
- Ability to work flexible hours as needed.

For further information or to apply, please visit careers.fiu.edu and reference Job Opening ID # 527647

Clery Notice
In compliance with the Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act, the University Police department at Florida International University provides information on crimes statistics, crime prevention, law enforcement, crime reporting, and other related issues for the past three (3) calendar years. The FIU Annual Security report is available online at: https://police.fiu.edu/download/annual-security-fire-safety-report/.

To obtain a paper copy of the report, please visit the FIU Police Department located at 885 SW 109th Avenue, Miami, FL, 33199 (PG5 Market Station).

Pay Transparency
Florida International University will not discharge or in any other manner discriminate against employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant. However, employees who have access to the compensation information of other employees or applicants as a part of their essential job functions cannot disclose the pay of other employees or applicants to individuals who do not otherwise have access to compensation information, unless the disclosure is (a) in response to a formal complaint or charge, (b) in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or (c) consistent with the contractor’s legal duty to furnish information.

FIU is a member of the State University System of Florida and an Equal Opportunity, Equal Access Affirmative Action Employer all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.