Engineer III

**Apply now** JOB NO: 495873

**WORK TYPE:** Staff Full-Time  
**LOCATION:** Immokalee, FL  
**DEPARTMENT:** Southwest Florida Research and Education Center

**CLASSIFICATION TITLE:**  
Engineer III

**JOB DESCRIPTION:**

Duties and responsibilities with percentage of time estimated to be spent on each type follows. These duties may change depending on the needs of the Water Resources program at the Southwest Florida Research and Education Center, Immokalee, FL.

1. Datalogger programming and design, construction, testing, installation, and maintenance of environmental monitoring systems (e.g. water quality auto samplers, data loggers, water level recorders, soil moisture measurement devices) with focus on hydrology and water quality in agricultural and natural systems. Design and implementation of QA/QC protocols of the monitoring data acquired from the systems described above.

2. Coordination of data collection and field activities. Supervision of field assistants/technicians and other project staff. In some instances, collection of data when qualified staff are not available. QA/QC of hydrology and water quality data.

3. Data analysis, including geospatial analyses and report writing for water resources and associated multi-disciplinary projects and development of automation tools (including web-based and mobile Apps).

4. Delivery of water resources extension programs in conjunction with water resources specialist and represent the SWFREC water resources program at state, federal, and international meetings.

5. Co-authorship of refereed and non-refereed research and extension papers.

6. Purchase equipment and supplies, development of construction bids, and supervision of infrastructure construction related to water resources engineering projects led by the supervising professor.

7. Assist in exploring research funding and co-development of research funding proposals (includes obtaining quotes and helping to prepare proposal budgets).

8. Co-supervision of graduate students and post-doctoral associates for field research.

9. Perform related work as required.
**ADVERTISED SALARY:**

Salary commensurate with education and experience

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**MINIMUM REQUIREMENTS:**

Master's degree in an appropriate area and two years of relevant experience; or a bachelor's degree in an appropriate area and four years of relevant experience; or a high school diploma or equivalent and eight years of appropriate experience. Appropriate college coursework or vocational/technical training may substitute at an equivalent rate for the required experience.

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**PREFERRED QUALIFICATIONS:**

Bachelor's degree in agricultural/civil/mechanical/electrical or other engineering or in Agricultural Operations and Management or science (agronomy/soil and water science/biology/environmental/geology or other related discipline) with adequate experience in hydrologic instrumentation, data logger programming, and data collection

Masters degree in natural sciences and engineering
Experience in project management
Knowledge of computer programming
Knowledge and experience in use of GIS tools for natural systems
Knowledge of internet programming (e.g. HTML, JAVA script) for developing web-based water and natural systems decision support systems
Background in hydrology/agricultural/natural sciences
Experience in testing and installation of instruments used in hydrology.
Experience in instrumentation and electronics.
Knowledge of the terminology, principles and techniques used in research, analysis or testing.
Knowledge of the procedures, techniques and equipment used in laboratory testing and analysis.
Knowledge of the methods of data collection.
Ability to assist in the development of research projects in conjunction with faculty and other staff.
Ability to perform statistical analysis using statistical software's (e.g. SAS/Minitab)
Ability to develop educational materials for agricultural water conservation and quality program.
Ability to prepare written reports for research findings in coordination with faculty.
Ability to install, maintain and operate field and laboratory equipment.
Ability to plan, organize and coordinate work assignments.
Ability to communicate effectively verbally and in writing.
Ability to establish and maintain effective working relationships with others.

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To be considered for this position, apply online at [http://explore.jobs.ufl.edu/cw/en-us/job/495873/engineer-iii](http://explore.jobs.ufl.edu/cw/en-us/job/495873/engineer-iii)

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