



Department of Geological Sciences
College of Liberal Arts and Sciences

Job Descriptions

Company/Organization: South Florida Water Management District

Area of Study: Hydrogeology

Company Contact: www.sfwmd.gov

Location: West Palm Beach, FL

Deadline: Open

Alumni/Friend Contact: Steve Krupa
skrupa@sfwmd.gov

Summer Internship Program 2017



The South Florida Water Management District is seeking **4 summer interns** for its **Water Resources Division**



Water Quality Monitoring (2 Intern Positions)

Project Assignment - District's Geographic Area

The intern will be working with experienced staff in the collection of environmental data including manual and electronic surface water quality and/or ecological and biological samples, and will assist with the operation, calibration and maintenance of field instrumentation and equipment, such as insitu data sondes and autosamplers. The intern will also learn about and assist in the preparation of samples for laboratory analysis, including but not limited to surface water samples and fish tissue for ultra-trace mercury analysis, and will participate in critically observing and comprehensively documenting field conditions.

Water Quality Treatment Technologies (1 Intern Position)

Project Assignment – Everglades Stormwater Treatment Areas (STAs)

The intern would be working with a team of scientists investigating ways to further enhance STA performance. Specifically, the intern would be working in the field conducting environmental surveys, sampling, and experiments at the STAs. Aside from field work, the incumbent would be working in an office environment to review literature, retrieve and/or enter data, and assist in preparing technical reports.

Water Supply – Hydrogeology Unit (1 Intern Position)

Project Assignment - District's Geographic Area

The intern will be working with experienced staff in the field providing oversight of well installation, cuttings collection and description, field groundwater and surface water sample collection, and aquifer performance testing. Aside from field work, the incumbent would also be working in an office environment providing data entry, data review, data upload, QA/QC, and correction of hydrogeologic data for the District's DBHYDRO database.

Contact Us:

To Apply and Learn More About The South Florida Water Management District

Please visit our website at www.sfwmd.gov/careers

Equal Opportunity Employer.

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Applicants Should:

- Be currently enrolled as an undergraduate or graduate student at a college or university with a major applicable to scientific or engineering activities done at SFWMD
- Be considering a career in the science or engineering field
- Be available to start at SFWMD in West Palm Beach on June 5, 2017, and work the duration of the internship, 10 consecutive weeks from the start date



Internship Information:

- 10 week summer internship (June 5 - August 11, 2017)
- All interns begin and end at the same time
- All interns will be paid \$12/hour and work a maximum of 32 hours/week
- Work is mix of field and office work

To Apply:

- Accepting applications through **May 5** and selections will be completed by **May 12, 2017**
- Visit <http://www.sfwmd.gov/careers> to view internship requirements and submit your application online

List of Internships Available:

Water Quality Monitoring - 2 positions (Field Operations Center, WPB)
Water Quality Treatment Technologies - 1 position (Headquarters, WPB)
Water Supply - 1 position (Headquarters, WPB)

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Example Scientist 1 Question Summary Sheet for the Applicant

March 7, 2012

1. **Education/Work Experience**
Please describe your education and work experience and how they qualify you for this position.
2. **Analytical Problem Solving**
Give me an example of any time when you used tools such as regional geological data, survey data, library research, or statistics as important contributors to definition of a specific problem.
3. **Commitment to Task**
Give us an example of any specific time in which you found it necessary to give long hours to the job. Tell us about a period when it was necessary to take work home, work on weekends, or maintain unusually long hours. Be specific.
4. **Decisiveness**
Describe a time when you were under pressure to make an immediate decision (perhaps without the aid of a supervisor or a manager). Did you take action immediately or were you more deliberate and slow?
5. **Goal Setting**
What have been your experiences in defining long range goals? Tell me what specific goal was set, how it was set, and how successful you were in its achievement.
6. **Interaction**
Being skillful in dealing with other people on the job is an important factor in being productive. Describe a time when you were successful in dealing with another because you built a trusting and harmonious relationship.
7. **Organization and Planning**
Time management has become a necessary factor in personal productivity. Give me an example of any time management skill you have learned and applied to work. What resulted from use of the skill?
8. **Spoken Communications**
Tell me about a specific experience of yours that illustrates your ability to influence another person verbally. Feel free to use an example that involves changing an attitude, selling a product/idea or being persuasive.
9. **Field Work/Equipment Use**
Please describe your work experience as it pertains to the field of hydrogeology e.g.: well installation oversight, cuttings collection and description, groundwater/surface water sample collection, aquifer performance testing and associated scientific field equipment. Be specific.
10. **Data Synthesis**
Please give an example of how you used field and research data to develop an understanding of a hydrogeological system.

Scientist I (Hydrogeology)

This entry-level scientist position provides oversight of well installation, cuttings collection and description, field groundwater/surface water sample collection, and aquifer performance testing. Other responsibilities include vehicle fleet management; equipment/asset management; data entry, review, and upload; QA/QC; management of hydrogeologic data for the SFWMD's DBHYDRO database; management of small contracts; and other field / office duties as assigned, with supervision by senior staff. Candidate must possess basic knowledge of hydrogeologic principles and inter-relationships, including the hydrologic cycle, evaporation, precipitation, runoff, stream flow, soil moisture, ground water flow, ground water occurrence, water chemistry, and ground water development. Basic familiarity with field methods used in hydrogeologic data collection and research (lithologic, water quality sampling techniques, surface water/ground water measurements, etc.) is desired. Basic knowledge of monitoring well networks including purpose, design and implementation is desirable, as well as knowledge of analyzing and interpreting field data. Familiarity with Microsoft Office applications such as Word, Excel, Access, and PowerPoint is required. Employment Guidelines include: Bachelor's Degree in natural or physical sciences and one (1) year of related experience. Candidate must be capable of performing fieldwork under hot, humid, and wet conditions in areas occupied by animals such as alligators, snakes, and stinging/biting insects and be able to lift and carry equipment (up to 40 lbs.) in the field. Travel to remote locations in a 4-wheel drive vehicle may be required from time to time to conduct field activities and may involve daily and overnight excursions throughout the 16-county SFWMD geographic area. Some field events may require the employee to remain at the test site overnight and assist with manual labor. The candidate must have a current State of Florida Driver's License.