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Dear Student,

We applaud your interest in our environment and the choice you have made to acquire your education in the Environmental Science Department here at Palm Beach State College. We have a tailored, two-year A.S. degree program and College Credit Certificate options that will equip you with the knowledge, skills, and experience you need to be competitive in the environmental field with local businesses and agencies. Our goal is to have every student gainfully employed in the environmental field after graduating from our program or in the pursuit of continued education.

This booklet is intended to help you market your skills upon graduation, or even while you are still studying, to be efficient and focused with your academic studies, and to become an environmental professional. In the first part of the manual, you will find information on our courses so you can plan your studies here at the college. This section is followed by career-focused information such as a “Résumé Writing Tips” section aimed at helping you compose résumés that will spike employers’ interest and generate job interviews. Then, once you have landed an interview, it will be important to sell yourself to the prospective employers. The “Interview Tips” section provides guidance on making a positive first impression.

In the latter part of the manual, you will find a list of career sectors in the environmental field, job titles associated with those sectors, and prospective employers (both public and private) that are located in the State of Florida, and in most cases right here in Palm Beach County.

We hope you actually study this booklet and treat it as an important learning tool that increases your successes in the program. We are confident this program provides you with the course material you need to be employed, but it takes that next step of researching businesses and agencies, perhaps volunteering or interning, networking, and preparing your résumé to achieve placement and reach your environmental career goals.

Please contact me if you have any further questions about employment in the local environmental field.

Sincerely,

Jessica Miles, Ph.D.

Dr. Jessica Miles
Department Chair
Environmental Science Technology
Environmental Science Program Mission and Purpose

Mission

We are a career-focused education program offering an Environmental Science Technology A.S. degree and College Credit Certificate options, designed to meet local workforce needs and/or continued education in the field utilizing hands-on, relevant, technical, and engaging instruction.

Guiding Principles

• Remain passionately focused on bringing the most relevant and engaging environmental science technology curriculum to our students.
• Create friendly relationships with our partners ranging from High School contacts, to local business operators, to local environmental agencies, to our adjunct faculty, in order to encourage communications so that we can aim to meet local needs.
• Be an enthusiastic voice for sustainable practices at the college and in the community.
### Proposed Course Wheel for Environmental Science Technology A.S. Degree

<table>
<thead>
<tr>
<th>Fall 1</th>
<th>Spring 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101 – College Composition 3</td>
<td>BSC1010 – Principles of Biology 3</td>
</tr>
<tr>
<td>MAC1105 – College Algebra 3</td>
<td>BSC1010L – Principles of Biology Lab 1</td>
</tr>
<tr>
<td>EVR1001 – Intro to Environmental Science 3</td>
<td>HSC2100 – Health Concepts and Strat. 3</td>
</tr>
<tr>
<td>CHM1045 – General Chemistry 3</td>
<td>ORH2511 – Plants of South Florida 3</td>
</tr>
<tr>
<td>CHM1045L – General Chemistry Lab 1</td>
<td>EVS2601 – Hazardous Mat. and Environmental Air Quality 3</td>
</tr>
<tr>
<td>EVS2193C – Environmental Sampling Techniques 4</td>
<td>GLY2030C – Environmental Geology 3</td>
</tr>
<tr>
<td><strong>Total Semester Credits</strong> 17</td>
<td><strong>Total Semester Credits</strong> 16</td>
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<table>
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<tr>
<th>Fall 2</th>
<th>Spring 2</th>
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<tbody>
<tr>
<td>SPC1017 – Fundamentals of Speech Com. 3</td>
<td>EVR1007 – Florida’s Environmental History 3</td>
</tr>
<tr>
<td>EVS2015 – Writing for Science 3</td>
<td>EVS2870C – Wildlife Ecology 4</td>
</tr>
<tr>
<td>EVS2020 – Scientific Monitoring and Data Methods 3</td>
<td>EVR2858 – Environmental Law (online) 3</td>
</tr>
<tr>
<td>XXXX – Humanities (select any course) 3</td>
<td>EVR2266 – Survey in Environmental Mapping/GIS 3</td>
</tr>
<tr>
<td>GEA1000 – Principles of Geography and Conservation (Recommended) OR another Social Science elective 3</td>
<td>EVR2940 – Cooperative Work Experience – Environmental Science* 3</td>
</tr>
<tr>
<td><strong>EVR 2266 may also be available fall term.</strong></td>
<td><strong>EVS 2015 may also be available spring term.</strong></td>
</tr>
<tr>
<td><strong>Total Semester Credits</strong> 15</td>
<td><strong>Total Semester Credits</strong> 16</td>
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<table>
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<tr>
<th>Summer</th>
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</thead>
<tbody>
<tr>
<td>EVR1007 – Florida’s Environmental History</td>
<td></td>
</tr>
<tr>
<td>EVR2858 – Environmental Law (face-to-face course option)</td>
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</tr>
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- A prerequisite for College Algebra is required – MAT1033C Intermediate Algebra or complete PERT with a score of 120 or higher.
- There is an Honors EVR 1001 option, also a full online EVR 1001 option.
- Some CCE classes for additional certificates offered throughout the year [http://www.palmbeachstate.edu/CCE/online.aspx](http://www.palmbeachstate.edu/CCE/online.aspx)
- Mandatory meeting in Nov., the semester prior to taking the course, with Dr. Miles to discuss placement options and course requirements.

NOTE: It is **NOT** necessary to begin the program during autumn (fall) term. The listing above is a suggestion only. Most classes are taught in the evenings at the Palm Beach Garden’s campus.
Hazardous Materials Specialist Certificate (6560)

This College Credit Certificate program (CCC) is part of the Environmental Science Technology AS degree program. If you follow the curriculum course wheel on the previous page, you will complete this certificate during your first year in the program (for full-time students). This college credit certificate consists of 14 credit hours, and the required classes are:

- EVS 2601 Hazardous Materials and Environmental Air Quality (3 credit lecture)
- CHM 1045 General Chemistry I (3 credit lecture)
- CHM 1045L General Chemistry 1 Lab (1 credit lab)
- MAC 1105 College Algebra (3 credit lecture)
- EVS 2193C Environmental Sampling (4 credit lecture/lab combo class)

This program offers a sequence of course that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Agriculture, Food and Natural Resources career cluster; provide technical skill proficiency, higher order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Agriculture, Food and Natural Resources career cluster. The content includes but is not limited to analysis, handling, storage, and dispensing of hazardous materials in accordance with appropriate federal, State, and local laws and regulation governing proper chemical management. The certificate will cover industry standards such as those included in the occupational Health and Safety Administration (OSHA) 29CFR1910.120 Hazardous Waste Operations and Response (HAZWOPER) standard, the oil Pollution act of 1990, the clean Air Act, the clean Water Act, and the Department of Transportation (DOT) regulations. Graduates of this certificate program should be able to research applicable local, state, and federal regulations and implement methods and strategies to ensure compliance; to maintain records as required by OSHA, the Environmental Protection Agency (EPA), and the DOT; to develop and implement hazardous materials handling procedures; to plan for emergency response to hazardous materials incidents; and to protect employees/workers/communities from hazardous material exposures.

Environmental Science Technician Certificate (6561)

This College Credit Certificate (CCC) program is part of the Environmental Science Technology AS degree program. If you follow the curriculum course wheel on the previous page, you will complete this certificate during your first year and half in the program (for full-time students). This college credit certificate consists of 30 credit hours, and the required classes are:

- EVS 2601 Hazardous Materials and Environmental Air Quality (3 credit lecture)
- EVS 2020 Scientific Monitoring and Data Methods (3 credit lecture)
- EVS 2193C Environmental Sampling (4 credit lecture/lab combo class)
- GLY 2030C Environmental Geology (3 credit lecture)
- EVR 1001 Introduction to Environmental Science (3 credit lecture)
- ENC 1101 College Composition (3 credit lecture)
- BSC 1010 Biology (3 credit lecture)
- BSC 1010L Biology Lab (1 credit lecture)
- CHM 1045 Chemistry (3 credit lecture)
- CHM 1045L Chemistry Lab (1 credit lecture)
- MAC 1105 College Algebra (3 credit lecture)

This program offers a sequence of course that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Agriculture, Food and Natural Resources career cluster; provide technical skill
proficiency, higher order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Agriculture, Food and Natural Resources career cluster.

The content includes but is not limited to instruction in worker health and safety, transportation of hazardous material, and a focus on federal regulations for environmental protection. Instruction includes the analysis, handling, storage, transportation, and dispensing of hazardous materials in accordance with appropriate regulations and the planning for the protection of employees/workers/communities from hazardous material.

**What you need to do!**

Both certificates can be completed while pursuing your A.S. degree program without any additional costs or classes. However, you must communicate with the Registrar and ask that the CCC's be added to your active program code so the certificate(s) can be processed and added to your transcript when you earn them.

To complete the task online:
1. Log in to Pantherweb
2. Click on "Program of Study" found under "My Details" on your home page. Then click “Submit”.
3. Where it says to “Click Here” to change your program of study, do just that...click.
4. At the very bottom of the page, click on the line that says “Submit.”
5. Select “Add a program” and then enter.
6. The code for one of the College Credit Certificates (CCC’s), Hazardous Materials Specialist Certificate (6560) and the other CCC Environmental Science Technician Certificate (6561) should be entered here. (You must repeat this step and enter both codes, one at a time.)
7. Click “Submit” at the bottom, and it takes 3-5 business days to go through. I recommend checking back to make sure it all went through.
8. In the end you should have three programs listed (6560, 6561, and the A.S. Degree which is 2216)

Contact the Registrar’s office or visit the office in person if you need further assistance.

*Note: You should have a total of three objectives once you have completed this entire process.*
Course Descriptions

Credits/Clock Hours – 3 credits (3 lecture hours)
Course Description – Provides students with a survey in fundamental mapping skills, geographic information systems, and remote sensing technologies

EVR1007 – Florida’s Environmental History (AA)
Credits/Clock Hours – 3 credits (3 lecture hours)
Course Description – This course examines the formation of the area presently known as Florida and traces the history of significant environmental developments, particularly those that are consequences of human impact. Focus is on geologic history, pre-human history, period of early man, and period of modern man.

EVR2858 – Environmental Law (AA)
Credits/Clock Hours – 3 credits (3 lecture hours)
Course Description – This course familiarizes the student with major legislation relating to the environment. Local, State, and Federal laws will be included. Habitat destruction, endangered species, environmental contamination, and pollution will be discussed. Students will be trained in how to obtain the text of current legislation.

EVR2940 – Cooperative Work Experience – Environmental Science (AA)
Credits/Clock Hours – 3 credits (3 lecture hours)
Course Description – Hands-on work experience as a volunteer assigned by the College to an appropriate cooperating office(s) or agency (ies). Hours and schedule are mutually determined by the student, cooperating office(s)/agency (ies), and the college. Final written and oral reports are required.

EVS2193C – Environmental Sampling Techniques (AA)
Credits/Clock Hours – 4 credits (3 lecture hours, 2 lab hours)
Course Description – This course will provide an overview of the proper procedures and techniques used to collect samples of data from a variety of environmental matrices including water, soil, air and industrial areas. Basic lab skills and instrumentation and equipment calibration and maintenance will be stressed.

EVS2015 – Writing for Science (AA)
Credits/Clock Hours – 3 credits (3 lecture hours)
Prerequisites/Corequisites
Prerequisite: ENC1101 (with a grade of C or higher)
Course Description – Technical writing with an emphasis on scientific reports and documents is covered including the review of literature and analysis of technical reports. Translating technical language into non-technical language for presentation to the general public is also covered.
EVS2020 Scientific Monitoring and Data Methods (AA)

Credits/Clock Hours – 3 credits (3 lecture hours)

Prerequisites/Corequisites
Prerequisite: ENC1101 (with a grade of C or higher)

Course Description – Basic computer literacy including spreadsheet, database, word processing, PowerPoint, e-mail, and Internet research skills are covered. The interpretation of charts, graphs, and maps and the use of the metric system of measurement also included.

EVS2870C – Wildlife Ecology (AA)

Credits/Clock Hours – 4 credits (3 lecture hours, 2 lab hours)

Prerequisites/Corequisites
Prerequisite: BSC1050 (with a grade of C or higher)

Course Description – This course familiarizes the student with the basic ecology of vertebrate and invertebrate wildlife and their relationships to their native Florida environments. Standard survey, analyses, and wildlife and land management techniques are also covered. Hands-on experience in ecological data collection will be emphasized.

EVS2601 – Hazardous Materials and Environmental Air Quality (AA)

Credits/Clock Hours – 3 credits (3 lecture hours)

Course Description – An introduction to characteristics of hazardous materials; determination of work site hazards; understanding the Safety Diamond; using Material Safety Data Sheets; and hazwoper training. Also, an introduction to air quality, building materials, and hands-on laboratory work in air and waste sampling.

GLY2030C – Environmental Geology (AA)

Credits/Clock Hours – 3 credits (3 lecture hours)

Course Description – Principles of physical and historical geology as applied to the materials, structures, and surface of the earth. Special emphasis on Florida geology with the use of case scenarios and laboratory activities to illustrate environmental concerns including depletion of earth's resources, water supply problems, and pollution.

ORH2511 – Introduction to Plants of South Florida Ecosystems (AS)

Credits/Clock Hours – 3 credits (3 lecture hours)

Course Description – An overview of the native flora (plant life) of Palm Beach County taught largely in the field. Plants will be studied primarily by their ecological associations and habitats, with additional attention to family groupings. This course is relevant to anyone interested in native plants or local ecology, to those studying environmental science, as well as to horticulturists interested in native plants.
The following is an optional course which takes students to Costa Rica for study abroad. It is offered very irregularly, so contact Dr. Miles, if you have questions.

PCB2350C – Tropical Ecology (AA)

Credits/Clock Hours – 3 credits (3 lecture hours)

Course Description – The course has been designed to provide students with the total work/study experience.

Students will have an opportunity to study and examine the diverse freshwater and upland ecosystems within the Costa Rican rainforest and the estuarine ecosystems of Tortuguero, providing data for the Costa Rican managers of El Zota Biological Field Station.

Students will be trained in the use of Global Positioning Systems (GPS), for purposes of mapping hydrologic features that sustain the rainforest.

Students will also be instructed in the use of low meters and water quality sampling equipment.

Tortuguero National Park has incredible biological diversity, including eleven different habitats; rainforest, swamps, beaches and lagoons.
Check out these environmental scholarships and awards available for undergraduate and graduate students. —Brittany Johnson, with additional reporting by Christine Coester

**Annie’s Homegrown Sustainable Agriculture Scholarship**
Known for its organic bunny-shaped crackers and its mac and cheese, Annie’s Homegrown invests in the future of environmental stewardship. Annually, the company’s Sustainable Agriculture Scholarship program gives $100,000 to undergraduate and graduate students studying sustainable and organic farming.

**Association for the Advancement of Sustainability in Higher Education Awards**
For almost a decade, AASHE has been offering awards to students who are dedicated to sustainability and helping them build a strong network in the environmental community.

**Brower Youth Awards**
Founded by the Sierra Club’s first executive director, David Brower, this award recognizes six environmental activists between the ages of 13 and 22. Administered by the Earth Island Institute, founded by Brower in 1982, the program offers each award recipient a $3,000 cash prize and a weeklong trip to San Francisco, where they participate in conferences and outdoor activities.

**Castle Ink Paperless Scholarship**
This might be the easiest way to apply for a scholarship. By simply hashtagging Castle Ink or linking to its site when posting about the importance of recycling, you put yourself in the running to win a $1,000 scholarship. The winner is chosen at random, but you can increase your odds by posting multiple times in multiple places.

**Elizabeth and Sherman Asche Memorial Scholarship**
The Association on American Indian Affairs (AAIA) awards this scholarship, available to undergraduates and graduates. Seven students receive $1,500 to pursue a public health or science degree. The AAIA scholarship program has been assisting American Indian and Alaska Native students since 1948.

**environmentalscience.org**
This website lists various companies that have scholarships and individual scholarships related to Environmental Science that students can apply for.

**Minority Scholarship**
Offered by Brown and Caldwell, an environmental engineering consulting firm, the Minority Scholarship aims to increase diversity in the industry by supporting organizations such as the Society of Women Engineers, the National Society of Black Engineers, and the Society for Hispanic Professional Engineers.
Morris K. Udall and Stewart L. Udall Foundation Undergraduate Scholarships
Students pursuing a career focusing on the environment, and Native American and Alaska Native students pursuing a career related to tribal public policy or Native American healthcare, are encouraged to apply for an Udall Scholarship, created to honor longtime Arizona congressman Morris Udall and his brother Stewart. Annually, about 50 applicants are awarded up to $5,000 each.

National Environmental Health Association Scholarship
The National Environmental Health Association has teamed up with the American Academy of Sanitarians to offer $1,000 scholarships to students studying environmental and public health.

National Garden Club Scholarships
If you have a soft spot for horticulture, gardening, landscape design, or floral design, the National Garden Club Scholarship Program could be fertile ground for college funds. To promote gardening and environmental stewardship, the National Garden Club awards more than a dozen scholarships to college juniors, seniors, and graduate students pursuing a degree in an environmental field.

National Network for Environmental Management Studies Fellowships
Part of the EPA, the NNEMS offers fellowships to undergraduates and graduates studying environmental science, law, policy, administration, or management. Fellows get a stipend to conduct a research project. Six fellowships were awarded in 2012.

National Oceanic and Atmospheric Administration Educational Partnership Program
With a focus on students attending minority-serving institutions, the National Oceanic and Atmospheric Association offers an undergraduate scholarship for sophomores and juniors majoring, or planning to major, in oceanic, atmospheric, or environmental disciplines. The two-year program includes a summer internship and a scholarship.

Switzer Environmental Fellowship Program
The Switzer Fellowship is granted to exceptional graduate students—10 in New England and 10 in California—who exhibit a promising future in environmental improvement and leadership. Winners get a one-year $15,000 cash prize, networking opportunities, and support to help foster their growth as environmental professionals.

Dr. W. Wesley Eckenfelder Jr. Scholarship
In memory of Dr. Eckenfelder, a pioneer in the field of water treatment, the Eckenfelder Scholarship is offered by engineering consultation firm Brown and Caldwell. It provides a grant to students studying civil, chemical, or environmental engineering or a related environmental science.
Tips on Résumé Writing

A résumé is not just about past jobs, it is about you. A self-promotional document presents you in the best possible light for the purpose of enticing the prospective employer and getting you an invitation for a job interview.

- Tell the employer about you: how you performed in your past jobs, your accomplishments that are relevant to what you want to do next.

- Make your résumé a targeted résumé: Analyze ads and job descriptions to identify keywords. Recognizing and using keywords from employers creates powerful résumés. While a generic résumé may be faster to send out to multiple employers, you are much less likely to get a response; so take the time to tailor each résumé to the job you are applying for and make your effort more worthwhile.

- Be sure to include a job objective: If you do not show a sense of purpose (or direction), employers may not be interested. This part can only be five or six words.

- Use titles and headings that are relevant to the job you want: For example, instead of “responsibilities”, use “on the job accomplishments”. This will grab attention in the first five seconds.

- Create a content that sells: Your skills and abilities are what will generate interviews and salary levels. If seeking a position in accounting, instead of listing your skills as “Accounting/Record Keeping”, you may want to say: “Management of A/R and A/P accounts”. Also, instead of “Administrative”, you may want to say: “Department Administration/Record keeping”. General statements are easily forgotten. Instead of “Gave assignments to entry level staff”, say: “Directed work flow; supervised and trained entry level staff.”

- Use designs that grab attention: Highlight titles, skills, education, and experience relevant to the job. Create an image that sticks to the mind with the use of numbers if possible.

- Identify and resolve employer’s hidden needs: Someone who can effectively work with other departments. Fill your résumé with PAR (Problem, Action, Results) sentences: first state the problem, then your action to resolve it, then the results that ensued. Ex: “Transformed disorganized, inefficient warehouse by redesigning layout; in turn, saving the company thousands of dollars.”

- Worried about age discrimination? You do not have to present your entire work history. List experiences for the past ten to fifteen years and title the section “Recent Work History” or “Relevant Work History”. You can add a paragraph headed “Prior Work History” and simply refer to prior important job experience without mentioning dates.

- Students can make their résumés look more appealing by adding seasonal jobs: “Summer 2004”, or “Spring 2008”, instead of “6/04 – 9/04” or “3/08 – 6/08”.
  - Combine several similar short-time jobs into one chunk, to minimize the job-hopper image. Ex: “1993 -1997: Waiter/Busboy – McDougall, Burger King, Trade Coffee Shop...”

- If you do not have any credentials for the position you are seeking, relate what steps you are taking toward that end: “Graduate studies in Environmental Science in progress”, or “A. S. Degree in Environmental Science anticipated in December 2010”. Any volunteer experience would be valuable at this point.

- Fill gaps by saying as gracefully as possible what you were doing during those periods of time: “1993 – 1995: Full time parent, “Family management”, or “Parenting & community service”.

- Do not list hobbies unless they are related to the position or job objectives.
Objective
Obtaining a position as a hazmat technician utilizing my skills in monitoring, research, and reporting.

Profile
Environmental Science Technology A.S. degree student seeking a career in the field of Environmental Science. Two years’ experience in environmental coursework. Accustomed to team work. Possesses management skills and is highly adaptable and a quick learner. Enjoy working outdoors.

Experience
• Soil Conservation Technician – ENV Company February 2003-Present
  o Assisted landowners in identifying, applying for, and practicing specific federal and state programs designed to assist in the viability, conservation and management of land use for food and fiber production or the preservation of natural resources
  o Assisted District Conservationist in resource planning, outlining outreach programs, and creating conservation plans
  o Maintained database including entering a daily record of activities, mailing and contact lists, and workload registers
• Environmental Resource Program Intern- January 2001-January 2003
  Florida Department of Environmental Protection
  o Duties included office and field work
  o Performed compliance inspections on Environmental Resource Permit exemptions and Notice General Permits issued for various construction and maintenance projects
  o Responsible for the proper operation and maintenance of one of the department’s boats

Education
• Palm Beach State College August 2008-Present
  o Currently have 48 credits toward a degree in Environmental Science Technology
  o Awarded the President’s List certificate for holding a GPA of over 3.8 for each semester attended
  o Member of Phi Theta Kappa honors society
  o Member of the Community Earth Club
• HazWOPER 40 hour Certificate - Current May 2010-Present
  o Understand the properties of hazardous materials
  o Able to read and interpret Material Safety Data Sheets
  o Can determine work site hazards and initiate safe working environment
  o Training in utilization of specialized equipment such as respirators, SCBAs, and hazmat suits
Courses

- **Hazardous Materials and Environmental Air Quality**
  - Able to identify hazardous materials, public safety precautions, and conduct air quality analyses utilizing specialized equipment

- **ArcGIS and GPS**
  - Possess fundamental skills in mapping, remote sensing technologies, Collector, and GPS data collection

- **Environmental Geology**
  - Able to identify geological materials, knowledgeable of Florida geology, and can conduct soil sampling procedures

- **Scientific Monitoring and Data Methods**
  - Able to organize data into tables and charts using spreadsheets, databases, and word processors, as well as interpret charts, graphs, and maps, and run basic statistics

- **Writing for Science**
  - Able to write and interpret scientific research papers and reports and translate technical language into non-technical language, as well as present scientific material to an audience

- **Plants of South Florida**
  - Able to identify Florida native plants and invasive exotics and possess basic skills in delineating wetlands

- **Wildlife Ecology**
  - Able to identify Florida vertebrates and invertebrates and able to collect ecological data using various sampling methods

- **Environmental Law**
  - Understand state and federal environmental laws as they relate to environmental preservation, conservation, reclamation, and protection

Skills

- Proficient using Microsoft Office Suite (Word, Excel, PowerPoint)
- Use of ArcGIS 10 and GPS
- Boat handling and trailering
- 4-wheel drive and ATV operations

Volunteer Experience

- **Wildlife Refuge** May 2010
  - Assisted biologists with building an artificial snail kite habitat over the course of five days

- **Juno Beach** August 2008 – Present
  - Volunteer time, once a month, to aid in beach cleanups along Juno Beach
Objective
Write the ultimate goal for your resume. List the position you are trying to acquire in a strong general statement.

Profile
Write a brief, general description of yourself that contains information that is pertinent to the position you are trying to attain.

Experience
- **Job Title / Place of Employment**
  - Dates of employment
  - Description of duties/ accomplishments via bullet points.

Education
- **School/ institution**
  - Dates of Attendance
  - Degree/ Certificates received, Clubs apart of, accomplishments, and awards.

Courses
- **Course Name**
  - Pertinent Skill(s) acquired from class that may not be mastered well enough to add as a skill under skills section.

Skills
- List any skill(s) that are pertinent to your objective. Examples: Commercial vehicle operators licenses, computer operating system literacy, common/uncommon computer application skills, etc...

Volunteer Experience
- **Place Volunteered**
  - Dates Volunteered
  - Brief description of your volunteer service
Palm Beach State College Career Centers

Palm Beach State College has partnered with Handshake, the leading career development platform for colleges and universities. Handshake together with our career centers will provide a one-stop job search experience for students as they begin their career and a seamless job posting experience for employers looking for qualified candidates.

- Job search guidance and advising
- Job seeking, interviewing, and résumé writing assistance and workshops
- Palm Beach State Résumé Writing Wizard
- Part-time and full-time job listings
- Job alerts via email
- Online résumé posting to jobs
- Yearly job fairs
- Employer on-campus recruitment

Where do I start?

Step 1:
Visit one of our Career Centers for an introduction to our services and resources

Step 2:
Logon to Handshake:

LOGIN
>> https://www.palmbeachstate.edu/career/handshake/default.aspx

This program gives you access to thousands of resources to assist in your career exploration and/or job search.

Step 3:
For individual assistance in your career planning or job search, please set up an appointment with a Career Development Advisor at one of the Career Centers.
Tips on Writing a Cover Letter

It is always good practice to include a well-written cover letter when sending a résumé. The cover letter should create interest so that the employer wants to read your résumé.

The cover letter is your chance to:

- Target your background to the job you’re applying for.
- Show that you know a little about the company or organization.
- Suggest areas in which your skills fit an employer’s needs.

What you need to know:

- Address your cover letter by name and title of the person who could hire you; if it is impossible to learn their name, use their functional title (Example: Dear Recruiter or Dear Selection Committee).
- Express interest and enthusiasm by letting the employer know you have an idea or some ideas that might help the employer resolve a problem currently facing the industry; offer to come in and discuss it.
- Set yourself apart from the crowd by identifying something unique about you such as a special talent you have for the particular job you are applying for.
- Be specific about the position or type of work you are applying for and be sure to mention the related skills and experience you have.
- Take the initiative by citing “I will contact you within the next week to make sure you have received my résumé”.
- Keep your cover letter brief and to the point including three to four paragraphs at the most.

Guidelines:

- Use quality 8½ x 11 stationery and envelopes with 20-25 lb. weight and 100% cotton rag content paper.
- Use conservative business color such as white, off white or cream.
- Only type on one side of the paper.
- Make sure you have a good printer that is printing well.
- Use the same type style for both the résumé and cover letter.
- Create your own letterhead with your name, address and phone number or use block style format for the return address.
- Address the letter to the hiring person followed by their title. You may have to call the company and talk to the receptionist to find out this information. In case of a blind ad, you can use Dear Sir or Madam for the salutation. So not to offend anyone, do not use Dear Sir only.
- It is generally acceptable to use abbreviations for Inc., Corp., or states, etc. It is best to find out what the company’s practice is for abbreviating their company name.
- When developing your sentences use action verbs. (Analyzed, Contracted, Reviewed, Wrote etc.)
- Use Sincerely for the closing. Do not use an informal closing such as, “Best regards”.
- Keep the letter to one page. Short and simple sentences should be used.
- Use of bullets to highlight accomplishments can also be used.
- Check spelling, punctuation, and appearance.
- Type your envelope if possible.
Helpful Interview Tips

You have filled out applications for numerous job openings, sent out several résumés and after a long waiting period, finally the phone call comes. It is a time of excitement and elation, but how do you handle it?

The prospective employer may just want to speak with you briefly and confirm your interest in the position, or may want to conduct a rigorous phone interview. Don’t feel obligated to launch into the conversation unprepared. It is ok to say “this is not a convenient time for me, but I will be available later today or tomorrow,” and ask to be called back, or offer to call.

Use the time requested to prepare: research the employer, prepare some questions to ask.

- What prompted your interest in my application?
- How much time should I allow for the interview?
- Is there a screening test? What should I do to prepare?

The Interview

Depending on the position, the phone conversation may be followed by one or several face to face interviews. Interviews can be as much about testing your knowledge and skill levels as about testing your personality. If the interview is conducted by a panel, your ability to address a group may be tested.

Plan ahead:

- Review your work experience, learn everything you can about the employer, prepare answers that relate to the company, focus on accomplishments relevant to the position, find out about the industry, the company’s competitors, etc.
- Get plenty of rest; eat a light meal before the interview.

On the day of interview:

- Always dress-up even if someone from the company tells you that the dress code is casual.
- Be prompt: arrive early, never late or merely on time. Do not arrive too early, as this may infringe the interviewer’s schedule.
- Bring an interview notebook: a small binder containing research on the employer, extra résumés, a list of references, and your questions. Do not bring big bags, briefcases, lunch, etc… You want to appear focused, efficient and organized. Don’t submit the reference list unless you are asked for it.
- Bring examples of your work if possible.
- If offered a beverage, it is most polite to accept. If offered to go to lunch for the interview, pick something easy to eat. No finger food, never an alcoholic beverage.

During the interview:

- Give socially acceptable answers without lying. Maintain eye contact. Be positive.
- Watch your facial expression: do not look bewildered or nervous. Remember to smile every now and then; a plastered smile throughout the interview may look faked.
- Stand and sit straight and tall. Sit toward the front of the chair, leaning slightly forward.
- Keep gestures to a minimum. If you have to make gestures, let them be natural and meaningful.

At the end of the interview, find out the expected time for the employer to make a hiring decision.
**Groom & Dress for Success**

“You never get a second change to make a first impression”

This definitely holds true in an interviewing situation. The moment an interviewer meets you, he or she is not only assessing the way you communicate verbally and nonverbally, but also your appearance.

**General guidelines for a professional interview:**

**MEN:**
- Single breasted suit
- Suits in navy, gray, brown or black
- Conservative tie
- Dark dress shoes
- Dark socks
- Dark dress belt
- Clean shaven
- No earrings

**WOMEN:**
- Tailored suit (skirt knee length)
- Suit in navy, black, gray or taupe
- Classic pump (color should match skirt)
- Natural colored hosiery
- Light make up
- No excessive jewelry
- Leather handbag
- Light nail polish (natural or lt. pink)

**BOTH MEN AND WOMEN:**
- Be well rested
- Shower/bath
- Brush teeth/use mouthwash/deodorant
- Neat, clean and pressed clothes
- Manicure your nails
- Shine shoes
- Do not use strong fragrances
- Nicely cut hair
- Leather briefcase/portfolio/nice pen
Typical Interview Questions/ How to Answer Tips
Some questions you should be ready to answer

- **Tell me about yourself?**
  This is not a time to talk about your life story. The interviewer wants to see if you can talk about yourself in a positive manner. Talk about your skills, accomplishments and personality traits that are related to the job for which you are interviewing.

- **What is your greatest weakness?**
  You can mention a weakness that really could be a positive for an organization and how you are overcoming that weakness. Example: “In the past, I pushed back deadlines so I could submit top quality work. Since then, I’ve learned to manage my time better and delegate more effectively so I can meet my deadlines.”

- **Why do you have a gap in your employment?**
  If you have gaps in your employment, be prepared to answer this question. Focus on those endeavors that related most closely to work activities such as, going to school, doing volunteer work, involved in professional affiliations, etc. Talk about anything that would sound like work.

- **Give me an example of a problem and how you solved it.**
  The employer wants to know if you can logically solve problems. When describing the problem, explain the steps you took to solve it. You might use this framework: defined the problem, evaluated your options, decided on a solution, and solved the problem.

*Practice answering these additional questions:*

- What do you know about our company?
- Why should we hire you?
- What can you do for us that someone else cannot?
- What do you look for in a job?
- What skills and qualifications are essential in the position of __________?
- How long will it take you to make a meaningful contribution to the company?
- How does this assignment fit your overall career plans?
- Why are you looking for a new career?
- How would your colleagues describe you?
- How would your boss describe you?
- How would you describe yourself?
- What do you think of your present and past boss?
- What are your five most significant accomplishments in your last job? In your career?
- Can you work well under pressure? Deadlines?
- Why do you want to work for this company?
- What other positions are you considering?
- Have you kept up in your field with additional training?
- What are your strong points? Weak points?
- What position do you expect to hold in 2 to 5 years?
- Why are you unemployed?
- What pay you are looking for?
- What question did I not ask that you expected?
Some Questions You May Ask:

- Why is this position open? How often has it been filled in the past five years?
- What would you like done differently by the next person who fills this position?
- What would you like to see accomplished in this job?
- What are your short term expectations? Long term?
- What are the advancement possibilities for someone who is successful in this position?
- How is one evaluated – What accounts for success with this company?

Don’t Ask These Questions:

- Salary: Wait until interviewer addresses the topic.
- Benefits: Vacation, Sick leave, Insurance, etc.
- Personal Questions: Never ask the interviewer about his or her educational background, marital status, children, religion, etc.
- Questions Already Answered During Interview.

Oral Communication Skills:

- Never say anything negative about your current or past employer.
- When asked about your age, be proud and stress your experience and accomplishments.
- It is not illegal for an employer to ask if you meet the minimum age requirements, especially if it is relevant to the position.
- It is illegal for an employer to ask about your health. If it happens, focus on your motivation, energy and stamina.
Interview Etiquette and Attitude

ETIQUETTE:

- Be punctual. Arrive 15 minutes early.
- Say good morning/afternoon and introduce yourself to the receptionist and interviewer.
- Greet the interviewer with a firm handshake before and after interview.
- Use Mr. or Ms. and the interviewer’s last name, unless the interviewer requests otherwise.
- Do not sit until invited to do so.
- Sit and stand up straight; it is best to keep your feet flat on the floor.
- Smile and project pleasant facial expressions during the interview.
- Do not smoke, even if interviewer does.
- No gum chewing.
- Avoid distracting behavior (swinging feet, rocking in the chair, tapping a pen, touching your face).
- Do not take control of interview and don’t interrupt.
- Do not use slang. Always use good grammar.
- Speak clearly and avoid mumbling. Do not use “um” or “ah” when pausing.
- Do not talk too fast or too much.
- Show your sense of humor when appropriate.
- Do not fold arms across the front of you.
- Nod head when appropriate.
- Do not bring a friend to the interview.
- Thank interviewer for his/her time.

ATTITUDE:

- Be truthful.
- Be enthusiastic and positive and “sell” yourself.
- Be confident in your abilities and knowledge.
- Do not use “I think” or “I guess” which makes you sound indecisive or unsure.
- Do not be vague by using phrases like “pretty good” or “fairly well”.
- Show your interest in the job and organization (but do not appear desperate).
- Show you are goal oriented.
- Participate, ask questions.
- Be mature, friendly and tactful.
- Do not be evasive about any negative factors in your past.
- Do not be negative about past employers or jobs.
- Do not talk about personal problems.
- Do not emphasize whom you know.
- Do not be a know it all: show willingness to learn.
- Be nice to all those you meet including the receptionist.
- Show you are interested in a “career” not a “job”.
- Show a willingness to start at the bottom.
- Show your willingness to relocate, if true.
- Do not emphasize the importance of money.
Most Desirable Qualities of Job Seekers

- Willingness to share information and ideas.
- Commitment to teamwork.
- Responsiveness to change.
- Sense of ownership of work and ideas.
- Willingness to take calculated risks.
- Multicultural experience and/or ability to speak multiple languages.
- Ability to communicate clearly and honestly.
- Commitment to continuous learning.

Some employers may use tests to check for these desirable qualities. Employment tests measure not only qualities but also abilities, skills, aptitudes, and attitudes.

A few examples of types of test:

**Personality or psychological tests**: these types of tests evaluate personality strengths, limitations, motivations, problem solving skills, stability, open-mindedness, etc.

**Aptitude or proficiency tests**: These types of tests evaluate your ability to learn and/or the abilities you already possess (typing, computer knowledge, accounting etc.).

**Psychomotor tests**: Measures manual dexterity and motor coordination.

**Drug tests**: This form of testing is often a required condition for employment.

**Work sample tests**: These tests involve completing work samples similar to those required on the job.

Keep a Journal and Portfolio:

The ability to show these most desirable qualities will greatly aid in achieving your goal of finding the position you are applying/searching for. Keeping a detailed journal and portfolio are great tools for organizing and maintaining your information. Document your accomplishments and develop a file of work samples. Also, include in your portfolio volunteer work, internships, awards, letters of recognition, etc. These documents will also be beneficial when updating your résumé.
Important Networking Tips

WHAT IS NETWORKING?

Networking is a communication process often used to gather career information and to locate job opportunities. It is a means of creating a system of contacts for information and support. Individuals who know how to network and who are well informed about various careers are more likely to get job leads and job offers.

Networking involves purposefully developing relationships with others. The intent is to exchange information. You relay your abilities and goals and, in return, you acquire career advice and information, and referrals from others.

The networking process involves both identifying your own networks as well as linking your networks to the networks of others.

You are networking when you...

• attend professional meetings, conferences, or conventions.
• visit with other parents during your child’s sporting or music events.
• volunteer for "clean-up" day at the park.
• visit with other members of your social clubs or religious groups.
• talk with your neighbors.
• strike up a conversation with someone else waiting at the veterinarian's office.
• search out friends (current as well as former) on Facebook.
• re-connect with former colleagues on LinkedIn.
• talk to sales persons visiting your office.

Attend Seminars: Seminars can provide opportunities to enhance your skills or learn new ones. In addition, they are a great way to network and meet others in the same occupation or industry. Always stay after for discussion. Shake hands and introduce yourself.

Join and Actively Participate in Associations: Joining associations related to your job can be beneficial. They provide great networking opportunities, as well as conferences, seminars or workshops to update or enhance your knowledge in your area of expertise.

Network with other job seekers: You will probably run across others also in the job market. Try to get to know them, encourage them. Learn what they are encountering. If you hear of jobs outside your area of interest, share them with others. Who knows? They may do the same for you.

Building relationships: Establishing and building relationships, not hard selling, is the key to successful networking. Be prepared to share your expertise, contacts and compassion.

Decide how to organize your network: This step is crucial to your success. Use a rolodex, database or spreadsheet where you can enter key information, such as names, titles, company names, addresses, phone numbers, fax numbers, email addresses, and dates of communication. Keeping an organized collection of business cards, where you can write notes and comments about your network, is another alternative.
Important Networking Tips continued...

**Brainstorm for Contacts:**

Think of everyone who could possibly serve as a contact. Do not limit yourself to people who could clearly help you out - friendly, accessible people in unrelated fields often have contacts they would be happy to share with you.

**To get you started with your list, here are some suggestions:**

<table>
<thead>
<tr>
<th>Contacts Type</th>
<th>Other Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family friends</td>
<td></td>
</tr>
<tr>
<td>Local politicians</td>
<td></td>
</tr>
<tr>
<td>Relatives</td>
<td>Journalists</td>
</tr>
<tr>
<td>Neighbors</td>
<td>Business executives</td>
</tr>
<tr>
<td>Professors</td>
<td>Non-profit directors</td>
</tr>
<tr>
<td>Alumni</td>
<td>Your physician</td>
</tr>
<tr>
<td>Former employees</td>
<td>Your hair dresser</td>
</tr>
<tr>
<td>Former co-workers</td>
<td>Prominent community members</td>
</tr>
<tr>
<td>Public relations officials</td>
<td>Members of professional organizations</td>
</tr>
</tbody>
</table>

**Where the Contacts Are - Tried and True Places to Network:**

<table>
<thead>
<tr>
<th>Places</th>
<th>Other Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local alumni association</td>
<td>Conventions</td>
</tr>
<tr>
<td>Class reunions</td>
<td>Club meetings</td>
</tr>
<tr>
<td>Cocktail parties</td>
<td>Internet list-services</td>
</tr>
<tr>
<td>Fundraisers</td>
<td>Volunteer opportunities</td>
</tr>
<tr>
<td>Business conferences</td>
<td></td>
</tr>
</tbody>
</table>

**Follow up immediately:** The next day, send an e-mail or make a quick call. You want to grow the relationship, so take the first step.
Instructor Perspectives Related to Select Courses

EVR2858  Environmental Law
This course familiarizes the student with major legislation relating to the environment. Local, State, and Federal laws will be included. Habitat destruction, endangered species, environmental contamination, and pollution will be discussed. Students will be trained in how to obtain the text of current legislation.

Instructor Perspectives: Environmental Law Course
“The main job skill obtained from completing the Environmental Law course is the ability for a student to take a job that involves enough background in environmental law matters that they can take up tasks related to regulatory compliance. Completing this course will not be enough to get a job on its own. This class, plus the sampling and data analysis classes will let students take jobs as technicians for consulting companies that are hired to conduct sampling for regulatory compliance. The Environmental Law class plus the Writing for Science class gives the graduate the skills to take a job at a consulting company or state agency that would involve writing permit applications for a construction/restore restoration project. Finally, the class lends itself to the larger picture (along with the skills learned in the writing class and a few others) - that is to convince students to continue their education with a bachelors or beyond...” Matt Harwell, Ph.D.

EVS2015 Writing for Science
Technical writing with an emphasis on scientific reports and documents is covered including the review of literature and analysis of technical reports. Translating technical language into non-technical language for presentation to the general public is also covered.

Instructor Perspectives: Writing for Science
“Sufficient ability to communicate technical information is a primary skill sought by all employers in the scientific community. Completion of the Technical Writing course provides the student with the ability to:
(1) read, dissect, and critique technical literature;
(2) effectively and efficiently search for appropriate technical material (i.e., literature, databases, etc.);
(3) synthesize technical information from various sources; and
(4) present findings in written and oral forums.
Completion of the Technical Writing course along with writing experience (i.e., peer-reviewed publications, government reports, manuals, textbook chapters, etc.) in the environmental field can lead to employment as a:
freelance writer,
government Contractor (i.e., US Fish and Wildlife Service, Nat. Park Service, US Geological Survey, etc.),
consultant (i.e., Plateau TechComm, BioTechnical Support Services, etc.), or
corporate Technical Writer (i.e, GE, RTGX, Platinum Solution, etc.)
Combining the Technical Writing course with courses such as Environmental Law, Sample Design, and Data Analysis opens the employment pool to more specific jobs producing various technical manuscripts to include:
proposals,
permits,
manuals,
text books, and much more.
Though these courses in combination provide significant insight in the methods of going from an idea to final technical document for a research project, proposal, etc., experience is necessary to acquire most of these jobs. Volunteer work goes a long way in filling the role of acquiring experience, but ultimately students in these courses should continue on to acquire Bachelor’s, Master’s, and PhD’s in the discipline. Along the road of acquiring these degrees, the student learns to master the written and oral communication skills employers are seeking. Further, mastery of these skills can lead the determined student to the American Dream of self-employment.” Donatto Surratt, PhD
Dear Students:

Perhaps you often question where the environmental science field is going, especially today when there are concerns about job security. Well I encourage you to remain informed about your field of choice and the potential for growth. I have included an analysis below that includes data from the U.S. Department of Labor, that demonstrates which environment fields currently in existence are expected to increase and which job sectors are considered emerging occupations that will also grow in demand. I personally highlighted fields in yellow/grey that are incorporated into our Environmental Science Program here at Palm Beach State College. I want to support you in your educational journey as well as keep you apprised of your career trends for when you graduate.

Dr. Jessica Miles

<table>
<thead>
<tr>
<th>Title</th>
<th>Description</th>
<th>Green Increased Demand Occupations</th>
<th>Green New and Emerging Occupations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Plant and System Operators</td>
<td>Control or operate an entire chemical process or system of machines.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Biofuels Production Managers</td>
<td>Manage operations at biofuels power generation facilities. Collect and process information on plant performance, diagnose problems, and design corrective procedures.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Title</td>
<td>Description</td>
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<td>Description</td>
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</tr>
<tr>
<td>Chemical Technicians</td>
<td>Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for purposes, such as research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences.</td>
<td>Biofuels/Biodiesel Technology and Product Development Managers</td>
<td>Define, plan, or execute biofuels/biodiesel research programs that evaluate alternative feedstock and process technologies with near-term commercial potential.</td>
</tr>
<tr>
<td>Chemists</td>
<td>Conduct qualitative and quantitative chemical analyses or chemical experiments in laboratories for quality or process control or to develop new products or knowledge.</td>
<td>Biomass Plant Engineers</td>
<td>Design plants that generate electricity from the combustion of biomass.</td>
</tr>
<tr>
<td>Computer Software Engineers, Systems Software</td>
<td>Research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications. Set operational specifications and formulate and analyze software requirements. Apply principles and techniques of computer science, engineering, and mathematical analysis.</td>
<td>Biomass Plant Technicians</td>
<td>Control and monitor biomass plant activities and perform maintenance as needed.</td>
</tr>
<tr>
<td>Computer-Controlled Machine Tool Operators, Metal and Plastic</td>
<td>Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces.</td>
<td>Biomass Production Managers</td>
<td>Manage operations at biomass power generation facilities. Direct work activities at plant, including supervision of operations and maintenance staff.</td>
</tr>
<tr>
<td>Electrical and Electronic Equipment Assemblers</td>
<td>Assemble or modify electrical or electronic equipment, such as computers, test equipment telemetering systems, electric motors, and batteries.</td>
<td>Brownfield Redevelopment Specialists and Site Managers</td>
<td>Participate in planning and directing cleanup and redevelopment of contaminated properties for reuse. Does not include properties sufficiently contaminated to qualify as Superfund sites.</td>
</tr>
<tr>
<td>Title</td>
<td>Description</td>
<td>Green Increased Demand Occupations</td>
<td>Green New and Emerging Occupations</td>
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</tr>
<tr>
<td>Electrical and Electronics Repairers, Commercial and Industrial Equipment</td>
<td>Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas.</td>
<td>Yes</td>
<td>Carbon Capture and Sequestration Systems Installers</td>
</tr>
<tr>
<td>Electrical Power-Line Installers and Repairers</td>
<td>Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers.</td>
<td>Potential</td>
<td>Carbon Credit Traders</td>
</tr>
<tr>
<td>Electricians</td>
<td>Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.</td>
<td>Potential</td>
<td>Carbon Trading Analysts</td>
</tr>
<tr>
<td>Electronics Engineering Technicians</td>
<td>Lay out, build, test, troubleshoot, repair, and modify developmental and production electronic components, parts, equipment, and systems, such as computer equipment, missile control instrumentation, electron tubes, test equipment, and machine tool numerical controls, applying principles and theories of electronics, electrical circuitry, engineering mathematics, electronic and electrical testing, and physics. Usually work under direction of engineering staff.</td>
<td>Potential</td>
<td>Chief Sustainability Officers</td>
</tr>
<tr>
<td>Environmental Scientists and Specialists, Including Health</td>
<td>Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Utilizing knowledge of various scientific disciplines may collect, synthesize, study, report, and take action based on data derived from measurements or observations of air, food, soil, water, and other sources.</td>
<td>Yes</td>
<td>Climate Change Analysts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes</td>
<td>Research and analyze policy developments related to climate change. Make climate-related recommendations for actions such as legislation, awareness campaigns, or fundraising approaches.</td>
</tr>
<tr>
<td>Green Increased Demand Occupations</td>
<td>Title</td>
<td>Description</td>
<td>Green New and Emerging Occupations</td>
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</tr>
<tr>
<td>Farm and Home Management Advisors</td>
<td>Advise, instruct, and assist individuals and families engaged in agriculture, agricultural-related processes, or home economics activities. Demonstrate procedures and apply research findings to solve problems; instruct and train in product development, sales, and the utilization of machinery and equipment to promote general welfare. Includes county agricultural agents, feed and farm management advisers, home economists, and extension service advisors.</td>
<td>Compliance Managers</td>
<td>Plan, direct, or coordinate activities of an organization to ensure compliance with ethical or regulatory standards.</td>
</tr>
<tr>
<td>First-Line Supervisors/Managers of Agricultural Crop and Horticultural Workers</td>
<td>Directly supervise and coordinate activities of agricultural crop or horticultural workers.</td>
<td>Electrical Engineering Technologists</td>
<td>Apply engineering theory and technical skills to support electrical engineering activities such as process control, electrical power distribution, and instrumentation design. Prepare layouts of machinery and equipment, plan the flow of work, conduct statistical studies and analyze production costs.</td>
</tr>
<tr>
<td>First-Line Supervisors/Managers of Mechanics, Installers, and Repairers</td>
<td>Supervise and coordinate the activities of mechanics, installers, and repairers.</td>
<td>Electromechanical Engineering Technologists</td>
<td>Apply engineering theory and technical skills to support electromechanical engineering activities such as computer-based process control, instrumentation, and machine design. Prepare layouts of machinery and equipment, plan the flow of work, conduct statistical studies and analyze production costs.</td>
</tr>
<tr>
<td>First-Line Supervisors/Managers of Production and Operating Workers</td>
<td>Supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators.</td>
<td>Electronics Engineering Technologists</td>
<td>Apply engineering theory and technical skills to support electronics engineering activities such as electronics systems and instrumentation design and digital signal processing.</td>
</tr>
<tr>
<td>Title</td>
<td>Description</td>
<td>Green Increased Demand Occupations</td>
<td>Green New and Emerging Occupations</td>
</tr>
<tr>
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</tr>
<tr>
<td>Fish and Game Wardens</td>
<td>Patrol assigned area to prevent fish and game law violations. Investigate reports of damage to crops or property by wildlife. Compile biological data.</td>
<td>Potential</td>
<td>Energy Auditors</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes</td>
<td>Conduct energy audits of buildings, building systems and process systems. May also conduct investment grade audits of buildings or systems.</td>
</tr>
<tr>
<td>Forest and Conservation Technicians</td>
<td>Compile data pertaining to size, content, condition, and other characteristics of forest tracts, under direction of foresters; train and lead forest workers in forest propagation, fire prevention and suppression. May assist conservation scientists in managing, improving, and protecting rangelands and wildlife habitats, and help provide technical assistance regarding the conservation of soil, water, and related natural resources.</td>
<td>Potential</td>
<td>Energy Brokers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Purchase or sell energy for customers.</td>
</tr>
<tr>
<td>Forest and Conservation Workers</td>
<td>Under supervision, perform manual labor necessary to develop, maintain, or protect forest, forested areas, and woodlands through such activities as raising and transporting tree seedlings; combating insects, pests, and diseases harmful to trees; and building erosion and water control structures and leaching of forest soil. Includes forester aides, seedling pullers, and tree planters.</td>
<td>Potential</td>
<td>Energy Engineers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Design, develop, and evaluate energy-related projects and programs to reduce energy costs or improve energy efficiency during the designing, building, or remodeling stages of construction. May specialize in electrical systems; heating, ventilation, and air-conditioning (HVAC) systems; green buildings; lighting; air quality; or energy procurement.</td>
</tr>
<tr>
<td>Helpers--Installation, Maintenance, and Repair Workers</td>
<td>Help installation, maintenance, and repair workers in maintenance, parts replacement, and repair of vehicles, industrial machinery, and electrical and electronic equipment. Perform duties, such as furnishing tools, materials, and supplies to other workers; cleaning work area, machines, and tools; and holding materials or tools for other workers.</td>
<td>Yes</td>
<td>Environmental Certification Specialists</td>
</tr>
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<td></td>
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<td></td>
<td>Guide clients such as manufacturers, organic farms, and timber companies through the process of being certified as green.</td>
</tr>
<tr>
<td>Green Increased Demand Occupations</td>
<td>Title</td>
<td>Description</td>
<td>Potential</td>
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</tr>
<tr>
<td>Hydrologists</td>
<td>Research the distribution, circulation, and physical properties of underground and surface waters; study the form and intensity of precipitation, its rate of infiltration into the soil, movement through the earth, and its return to the ocean and atmosphere.</td>
<td>Potential</td>
<td>Yes</td>
</tr>
<tr>
<td>Industrial Engineers</td>
<td>Design, develop, test, and evaluate integrated systems for managing industrial production processes including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination.</td>
<td>Potential</td>
<td>Potential</td>
</tr>
<tr>
<td>Industrial Machinery Mechanics</td>
<td>Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems.</td>
<td>Potential</td>
<td>Yes</td>
</tr>
<tr>
<td>Industrial Production Managers</td>
<td>Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications.</td>
<td>Potential</td>
<td>Yes</td>
</tr>
<tr>
<td>Industrial Safety and Health Engineers</td>
<td>Plan, implement, and coordinate safety programs, requiring application of engineering principles and technology, to prevent or correct unsafe environmental working conditions.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Green Increased Demand Occupations</td>
<td>Description</td>
<td>Green New and Emerging Occupations</td>
<td>Title</td>
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</tr>
<tr>
<td>Natural Sciences Managers</td>
<td>Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields.</td>
<td></td>
<td>Geospatial Information Scientists and Technologists</td>
</tr>
<tr>
<td>Power Distributors and Dispatchers</td>
<td>Coordinate, regulate, or distribute electricity or steam.</td>
<td></td>
<td>Green Marketers</td>
</tr>
<tr>
<td>Purchasing Agents and Buyers, Farm Products</td>
<td>Purchase farm products either for further processing or resale.</td>
<td></td>
<td>Greenhouse Gas Emissions Permitting Consultants</td>
</tr>
<tr>
<td>Solderers and Brazers</td>
<td>Braze or solder together components to assemble fabricated metal parts, using soldering iron, torch, or welding machine and flux.</td>
<td></td>
<td>Greenhouse Gas Emissions Report Verifiers</td>
</tr>
<tr>
<td>Stationary Engineers and Boiler Operators</td>
<td>Operate or maintain stationary engines, boilers, or other mechanical equipment to provide utilities for buildings or industrial processes. Operate equipment, such as steam engines, generators, motors, turbines, and steam boilers.</td>
<td></td>
<td>Hydroelectric Plant Technicians</td>
</tr>
</tbody>
</table>

### Potential

- **Yes**
- **Potential**
- **Yes**

### Description

- Research and develop geospatial technologies. May produce databases, perform applications programming or coordinate projects. May specialize in areas such as agriculture, mining, health care, retail trade, urban planning or military intelligence.
- Create and implement methods to market green products and services.
- Conduct data gathering, data analysis, calculation, inventories and reduction planning, and be familiar with emerging regulations on greenhouse gas management.
- Conduct data audits of reported greenhouse gas emissions inventories.
- Monitor and control activities associated with hydropower generation. Operate plant equipment, such as turbines, pumps, valves, gates, fans, electric control boards, and battery banks. Monitor equipment operation and performance and make necessary adjustments to ensure optimal performance. Perform equipment maintenance and repair as necessary.
<table>
<thead>
<tr>
<th>Green Increased Demand Occupations</th>
<th>Green New and Emerging Occupations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>Team Assemblers</td>
<td>Work as part of a team having responsibility for assembling an entire product or component of a product. Team assemblers can perform all tasks conducted by the team in the assembly process and rotate through all or most of them rather than being assigned to a specific task on a permanent basis. May participate in making management decisions affecting the work. Team leaders who work as part of the team should be included.</td>
</tr>
<tr>
<td>Hydroelectric Production Managers</td>
<td>Manage operations at hydroelectric power generation facilities. Maintain and monitor hydroelectric plant equipment for efficient and safe plant operations.</td>
</tr>
<tr>
<td>Welders, Cutters, and Welder Fitters</td>
<td>Use hand-welding or flame-cutting equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.</td>
</tr>
<tr>
<td>Industrial Ecologists</td>
<td>Study or investigate industrial production and natural ecosystems to achieve high production, sustainable resources, and environmental safety or protection. May apply principles and activities of natural ecosystems to develop models for industrial systems.</td>
</tr>
<tr>
<td>Zoologists and Wildlife Biologists</td>
<td>Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife. May specialize in wildlife research and management, including the collection and analysis of biological data to determine the environmental effects of present and potential use of land and water areas.</td>
</tr>
<tr>
<td>Industrial Engineering Technologists</td>
<td>Potential</td>
</tr>
<tr>
<td>Methane Capturing System Engineers/Installers/Project Managers</td>
<td>Design gas recovery systems and oversee installation and development process, including recovery modeling, permitting, specifications preparation and project oversight. Develop client relationships and arrange for sales of energy.</td>
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<tr>
<td>Title</td>
<td>Description</td>
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</tr>
<tr>
<td>Methane/Landfill Gas Collection System Operators</td>
<td>Direct daily operations, maintenance, or repair of landfill gas projects, including maintenance of daily logs, determination of service priorities, and compliance with reporting requirements.</td>
</tr>
<tr>
<td>Methane/Landfill Gas Generation System Technicians</td>
<td>Monitor, operate, and maintain landfill gas collection system components and environmental monitoring and control systems.</td>
</tr>
<tr>
<td>Precision Agriculture Technicians</td>
<td>Apply geospatial technologies, including geographic information systems (GIS) and Global Positioning System (GPS), to agricultural production and management activities, such as pest scouting, site-specific pesticide application, yield mapping, and variable-rate irrigation. May use computers to develop and analyze maps and remote sensing images to compare physical topography with data on soils, fertilizer, pests or weather.</td>
</tr>
<tr>
<td>Recycling and Reclamation Workers</td>
<td>Prepare and sort materials or products for recycling. Identify and remove hazardous substances. Dismantle components of products such as appliances.</td>
</tr>
<tr>
<td>Recycling Coordinators</td>
<td>Supervise curbside and drop-off recycling programs for municipal governments or private firms.</td>
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<tr>
<td>Title</td>
<td>Description</td>
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</tr>
<tr>
<td>Regulatory Affairs Managers</td>
<td>Plan, direct, or coordinate production activities of an organization to ensure compliance with regulations and standard operating procedures.</td>
</tr>
<tr>
<td>Regulatory Affairs Specialists</td>
<td>Coordinate and document internal regulatory processes, such as internal audits, inspections, license renewals or registrations. May compile and prepare materials for submission to regulatory agencies.</td>
</tr>
<tr>
<td>Remote Sensing Scientists and Technologists</td>
<td>Apply remote sensing principles and methods to analyze data and solve problems in areas such as natural resource management, urban planning, and homeland security. May develop new analytical techniques and sensor systems or develop new applications for existing systems.</td>
</tr>
<tr>
<td>Remote Sensing Technicians</td>
<td>Apply remote sensing technologies to assist scientists in areas such as natural resources, urban planning, and homeland security. May prepare flight plans and sensor configurations for flight trips.</td>
</tr>
<tr>
<td>Solar Energy Installation Managers</td>
<td>Direct work crews installing residential or commercial solar photovoltaic or thermal systems.</td>
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<td>Title</td>
<td>Description</td>
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</tr>
<tr>
<td>Solar Energy Systems Engineers</td>
<td>Perform site-specific engineering analysis or evaluation of energy efficiency and solar projects involving residential, commercial, or industrial customers. Design solar domestic hot water and space heating systems for new and existing structures, applying knowledge of structural energy requirements, local climates, solar technology, and thermodynamics.</td>
</tr>
<tr>
<td>Solar Photovoltaic Installers</td>
<td>Assemble, install, or maintain solar photovoltaic (PV) systems on roofs or other structures in compliance with site assessment and schematics. May include measuring, cutting, assembling, and bolting structural framing and solar modules. May perform minor electrical work such as current checks.</td>
</tr>
<tr>
<td>Solar Power Plant Technicians</td>
<td>Monitor and repair the instrumentation, controls, and electrical systems in a utility-scale solar power generating facility.</td>
</tr>
<tr>
<td>Solar Sales Representatives and Assessors</td>
<td>Contact new or existing customers to determine their solar equipment needs, suggest systems or equipment, or estimate costs.</td>
</tr>
<tr>
<td>Solar Thermal Installers and Technicians</td>
<td>Install or repair solar energy systems designed to collect, store, and circulate solar-heated water for residential, commercial or industrial use.</td>
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<td>Title</td>
<td>Description</td>
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</tr>
<tr>
<td>Solar Thermoelectric Plant/Concentrating Thermal Power (CSP) Plant Operators</td>
<td>Direct the operations of a commercial solar-generated power production plant.</td>
</tr>
<tr>
<td>Sustainability Specialists</td>
<td>Address organizational sustainability issues, such as waste stream management, green building practices, and green procurement plans.</td>
</tr>
<tr>
<td>Sustainable Design Specialists</td>
<td>Design from the outset for recycling, reuse or remanufacturing.</td>
</tr>
<tr>
<td>Water/Wastewater Engineers</td>
<td>Design or oversee projects involving provision of fresh water, disposal of wastewater and sewage, or prevention of flood-related damage. Prepare environmental documentation for water resources, regulatory program compliance issues, such as supply adequacy and quality, and design stormwater programs.</td>
</tr>
<tr>
<td>Water Resource Specialists</td>
<td>Design or implement programs and strategies related to water resource issues such as supply, quality, and regulatory compliance issues.</td>
</tr>
<tr>
<td>Sustainable Design Specialists</td>
<td>Design from the outset for recycling, reuse or remanufacturing.</td>
</tr>
<tr>
<td>Weatherization Installers and Technicians</td>
<td>Perform a variety of activities to weatherize homes and make them more energy efficient. May perform energy audits and advise clients on energy conservation measures.</td>
</tr>
<tr>
<td>Potential Water/Wastewater Engineers</td>
<td>Design or oversee projects involving provision of fresh water, disposal of wastewater and sewage, or prevention of flood-related damage. Perform hydraulic modeling and pipeline design. Prepare environmental documentation for water resources, regulatory program compliance issues, such as supply adequacy and quality, and design stormwater programs.</td>
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<td>Title</td>
<td>Description</td>
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<tr>
<td>Wind Energy Engineers</td>
<td>Design underground or overhead wind farm collector systems and prepare and develop site specifications.</td>
</tr>
<tr>
<td>Wind Energy Operations Managers</td>
<td>Manage wind field operations, including personnel, maintenance activities, financial activities, and planning.</td>
</tr>
<tr>
<td>Wind Energy Project Managers</td>
<td>Lead or manage the development and evaluation of potential wind energy business opportunities, including environmental studies, permitting, and proposals. May also manage construction of projects.</td>
</tr>
<tr>
<td>Wind Turbine Service Technicians</td>
<td>Inspect, diagnose, adjust, or repair wind turbines. Perform maintenance on wind turbine equipment including resolving electrical, mechanical, and hydraulic malfunctions.</td>
</tr>
</tbody>
</table>
Career Opportunities – Environmental Science, Florida Focus

Education range for the specializations listed below include everything from an A.S. degree to Master’s level to obtain certain positions. Many positions may also be found within environmental consulting firms, and a list of firms is found later in this handbook.

<table>
<thead>
<tr>
<th>Specialization</th>
<th>Potential Titles</th>
<th>Private</th>
<th>Government</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology/Science/Environmental Education</td>
<td>Camp Counselor</td>
<td>Ann Norton Sculpture Gardens 6</td>
<td>FL Cooperative Extension Service 146</td>
</tr>
<tr>
<td></td>
<td>Ed Program Coordinator</td>
<td>Audubon of Florida 12</td>
<td>FL Dept. of Environmental Protection 148</td>
</tr>
<tr>
<td></td>
<td>Education Specialist</td>
<td>Everglades Foundation 10</td>
<td>FL Fish and Wildlife Conservation Commission 154</td>
</tr>
<tr>
<td></td>
<td>Environmental -Ranger</td>
<td>Environmental Camps 53</td>
<td>Loxahatchee River District 81</td>
</tr>
<tr>
<td></td>
<td>Extension Agent</td>
<td>Environmental Quality, Inc 39</td>
<td>Palm Beach County Environmental Resources Management 41</td>
</tr>
<tr>
<td></td>
<td>Public Information Officer</td>
<td>Florida Power and Light 56</td>
<td>Palm Beach County Parks and Recreation 97</td>
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<td></td>
<td>Grassy Waters Preserve 67</td>
<td>Public Elem., Middle, and High Schools 104</td>
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<td></td>
<td></td>
<td>Greenpeace 69</td>
<td>US National Park Service 136</td>
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<tr>
<td></td>
<td></td>
<td>Loggerhead Marine Life Center 80</td>
<td>US Fish and Wildlife Service 134</td>
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<td>Marinela 83</td>
<td>USDA Forest Service 137</td>
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<td></td>
<td>Marine Resources Council 84</td>
<td>Water Management Districts 140</td>
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<tr>
<td></td>
<td></td>
<td>Mote Marine Laboratory &amp; Aquarium 88</td>
<td>Various city, town, and villages –</td>
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<td></td>
<td></td>
<td>Ocean Conservancy 95</td>
<td>government offices</td>
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<td></td>
<td></td>
<td>Perry Institute for Marine Science 99</td>
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<td>Pine Jog 102</td>
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<td></td>
<td>Private Elem., Middle, and High Schools 104</td>
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<td></td>
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<td>Political Action Committees 103</td>
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<td></td>
<td>Public Interest Groups 106</td>
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<td></td>
<td></td>
<td>Seasonal Educational Camps 112</td>
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<td>Sierra Club Florida 114</td>
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<td></td>
<td></td>
<td>Tampa Electric Cooperative  (TECO) 120</td>
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<td></td>
<td></td>
<td>The Nature Conservancy 127</td>
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<td>World Wildlife Fund (WWF) 143</td>
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<tr>
<td></td>
<td>Land Management Specialist</td>
<td>Environmental Consulting Firms (see pgs. 47-57)</td>
<td>FL Division of Forestry 51</td>
</tr>
<tr>
<td></td>
<td>GIS Technician</td>
<td>Environmental Data Resources, Inc. 37</td>
<td>Loxahatchee River District 81</td>
</tr>
<tr>
<td></td>
<td>Technical Systems Analyst</td>
<td>ESR144</td>
<td>South Florida Water Management Districts 5116</td>
</tr>
<tr>
<td></td>
<td>Geospatial Analyst</td>
<td>Florida Power and Light 95</td>
<td>US Fish and Wildlife Service 134</td>
</tr>
<tr>
<td></td>
<td>Geotechnical Engineer</td>
<td>GeoSyntec Consultants 563</td>
<td>US National Park Service 136</td>
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<td></td>
<td>Computer Aid Design Professional</td>
<td>Geoweb 64</td>
<td>USDA Forest Service 137</td>
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<tr>
<td></td>
<td>Geotechnical Lab</td>
<td>International Paper 78</td>
<td>Water Management Districts 140</td>
</tr>
<tr>
<td></td>
<td>Technician</td>
<td>Metrostudy 85</td>
<td>Various city, town, and villages – government offices</td>
</tr>
<tr>
<td></td>
<td>Geoscientist</td>
<td>Pike Enterprises, LLC 101</td>
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<td>Seminole Tribe of Florida 113</td>
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<td>Terracon 122</td>
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<td>WSP, Parsons Brinckerhoff 143</td>
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<tr>
<td>Specialization</td>
<td>Potential Titles</td>
<td>Potential Employers</td>
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<tr>
<td>Ecotourism</td>
<td>Ecotourism Guide</td>
<td>County Chambers of Commerce23</td>
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<tr>
<td></td>
<td>Environmental Planner</td>
<td>Crew Land and Water Trust 25</td>
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<td></td>
<td>Recreation Planner</td>
<td>Environmental Dynamics, Inc.36</td>
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<td></td>
<td>Recreational Consultant</td>
<td>Environmental Quality, Inc.39</td>
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<td></td>
<td></td>
<td>Guide Services</td>
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<td></td>
<td></td>
<td>Recreation / Tourism Planning Firms</td>
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<td></td>
<td>County/Municipal Parks Service</td>
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<td>FL Dept. of Environmental Protection22</td>
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<td>FL Division of Forestry51</td>
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<td>Palm Beach County Parks and Recreation97</td>
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<td>US National Park Service136</td>
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<td>USDA Forest Service137</td>
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<tr>
<td>Environmental Law/Legal</td>
<td>Compliance Officer</td>
<td>Audubon of Florida12</td>
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<tr>
<td></td>
<td>Environmental Attorney</td>
<td>Environmental Consulting Firms (see pgs. 47-57)</td>
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<tr>
<td></td>
<td>Environmental Safety Specialist</td>
<td>Law Firms</td>
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<td></td>
<td>Regulatory Inspector</td>
<td>Political Action Committees103</td>
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<td></td>
<td></td>
<td>Sierra Club Florida114</td>
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<td>FL Dept. of Environmental Protection48</td>
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<td>FL Dept. of Transportation50</td>
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<td>FL Fish and Wildlife Conservation Commission54</td>
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<td>Water Management Districts140</td>
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<tr>
<td></td>
<td>Arborist</td>
<td>Cherokee Enterprises20</td>
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<td>Ecologist</td>
<td>CRZ Incorporated28</td>
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<td>Environmental Analyst</td>
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<td>Environmental Planner</td>
<td>Environmental Services Inc.42</td>
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<td>Extension Agent Forest</td>
<td>Florida Native Plant Society60</td>
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<td>Forester</td>
<td>Florida Power and Light56</td>
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<td>Forest Health Specialist</td>
<td>International Paper78</td>
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<td>GIS Specialist</td>
<td>Natural Resource Planning Services93</td>
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<td>Land Acquisition Specialist</td>
<td>Rayonier108</td>
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<td></td>
<td>Silvicultural Researcher</td>
<td>Sierra Club Florida114</td>
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<td>Urban Forester</td>
<td>SWS First Response119</td>
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<td>Urban Planner</td>
<td>The Forestry Company125</td>
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<td>The Institute for Regional Conservation126</td>
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<td>The Nature Conservancy127</td>
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<td>State Agriculture Office</td>
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<td>FL Cooperative Extension Service46</td>
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<td>FL Department of Agriculture47</td>
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<td>Loxahatchee River District181</td>
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<td>US Dept. of the Interior131</td>
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<td>US Fish and Wildlife Service134</td>
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Amec Foster Wheeler
West Palm Beach, FL  (561) 242-7713
Palm Beach, FL   (561) 855-4020
Tampa, FL   (813) 289-0750
Orlando, FL    (407) 522-7570
Naples, FL    (239) 643-4747
Fort Lauderdale, FL   (954) 315-3830
Miami Lakes, FL (305) 826-5588
Website:  http://www.amecfw.com/

Arcadis
Boynton Beach, FL  561 697 7000
Jacksonville, FL  904 721 2991
Sarasota, FL    941 379 6280
Tallahassee, FL  851 422 2555
Pensacola, FL    850 476 8448
Coral Gables, FL  305 728 7000
Website: https://www.arcadis.com/en/global/careers/

Ardaman & Associates
West Palm Beach, FL   (561) 687-8200
Port St. Lucie, FL   (772) 878-0072
Miami   (305) 825-2683
Website: http://www.ardaman.com/

Ayres Associates
5802 Benjamin Center Drive, Suite 101
Tampa, FL 33634
(813) 290-8899
http://www.ayresassociates.com/

Barnes, Ferland, and Associates, Inc.
3655 Maguire Boulevard, Suite 150
Orlando FL, 32803
(561) 689-1730
(407) 896-8608
(407) 896-1822
http://bfaenvironmental.com/
Battelle
1400 Centrepark Blvd., Suite 810
West Palm Beach, FL 33401
(561) 656-6300
(561) 683-0126
http://battelle.org/

BEM Systems, Inc.
16877 East Colonial Drive, #123
Orlando, FL 32820
(407)402.4440
http://www.bemsy.com/

Birkitt Environmental Services, Inc.
Tampa, FL 813-259-1085
Website: http://birkitt.com/

Calvin, Giordano, & Associates
Ft. Lauderdale, FL 954.921.7781
West Palm Beach, FL 561.684.6161
Homestead, FL 786.243.0071
Port St. Lucie, FL 772.489.9494
Tampa, FL 727.394.3825
Jacksonville, FL 904.834.4314
Website: http://www.cgasolutions.com/careers/

Cardno, Inc.
4803 George Road
Suite 350
Tampa, FL 33634
727 431 1580

Carollo Engineers
Hollywood, FL (954) 837-0030
Miami, FL (305) 261-2484
Orlando, FL (407) 478-4642
Lake Worth, FL (561) 868-6400
Tampa, FL (813) 888-9572
Website: https://carollocareers.silkroad.com/
Cherokee Enterprises, INC.
Miami Lakes, FL (305) 828-3353
Fort Lauderdale, FL (954) 315-0158
Website: http://www.cherokeecorp.com/

Coastal Systems International
Miami, FL 305-661-3655
West Palm Beach, FL 561-640-1003
Tallahassee, FL 850-765-4520
Website: http://www.coastalsystemsint.com/

CZR Incorporated
Jupiter, FL (561) 747-7455
Website: http://www.czr-inc.com/

Davis Environmental Solutions
North Miami, FL 305-502-1954
Website: http://davis-environmental.com/

DB Environmental
Loxahatchee, FL (561) 784-7890
Linkedin Site: https://www.linkedin.com/company/d-b-environmental

E Sciences, Inc.
Orlando, FL 407.481.9006
DeLand, FL 386.734.1950
Ft. Lauderdale, FL 954.484.8500
Miami, FL 786.517.2632
Website: http://esciencesinc.com/careers/

EAA Research and Management, Inc.
12773 W Forest Hill Boulevard 105a
West Palm Beach, FL 33414
(561) 792-7621
(561) 753-0061

Eagle-SWS
Corporate (850) 234.8428
Ft. Myers, FL (239) 275-5372
Ft. Lauderdale, FL (954) 957-7271
Orlando, FL (407) 854-5733
Website: http://eaglesws.com/
Earth Systems, Inc
Lantana, FL  561-588-3985
Tampa, FL  813-326-3184
Tallahassee, FL  850-385-7560
Jacksonville Beach, FL  904-247-0740
Website:  http://earthsyst.org/

ECO Advisors, LLC
Palm Beach Gardens, FL  (561) 627-1042
Miami, FL  (305) 279-5255
Website:  http://www.ecoadvisors.net/

Ecology and Environment, Inc.
1665 Palm Beach Lakes Blvd. - Suite 500
West Palm Beach, FL 33401
(561) 640-6552
(716) 684-8060 Corporate
http://ene.com/

Engineering and Applied Science, Inc.
550 North Reo Street, Suite 105
Tampa, FL 33609
(813) 207-5061
http://www.apscieng.com

Environmental Consulting and Technology, Inc.
8651 Commodity Circle
Orlando, FL 32819
(855) 737-0444
(954) 771-0444
(407) 903-0005
(407) 903-0030
http://ectinc.com/
Environmental Matters Contracting & Consulting, LLC
Greenacres, FL (561) 370-3408
Website: http://www.environmental-matters.org/

Environmental Quality, Inc.
212 US Highway 1, Suite 18
Tequesta, FL 33469
(561) 575-6778
(561) 575-9996
http://eq-inc.com/

Environmental Research and Design, Inc.
3419 Trentwood Boulevard - Suite 102
Orlando, FL 32812
(407) 855-9465
(407)-826-0419
http://erd.org/

Environmental Resources Management
West Palm Beach, FL (561)233-2400
Website: http://www.co.palm-beach.fl.us/erm/

Environmental Services, Inc.
Jacksonville, FL (904) 470-2200
Daytona Beach, FL (386) 478-4350
Tallahassee, FL (850) 270-6170
Website: http://www.esinc.cc/

Florida Department of Environmental Protection (DEP)
Headquarters (850) 245-2511
Website: http://www.dep.state.fl.us/careers/

Geoanalytics, Inc.
330 Clematis Street - Suite 214
West Palm Beach, FL 33401-4602
(561) 655-1216
(561) 655-0681
http://www.geoanalytics.com/
**GHD Engineers and Environmental Scientists**

- Miami, FL 786 334 6392
- Tampa, FL 813 971 3882
- West Palm Beach (Wellington), FL (561) 688-9008
- Fort Myers, FL 239 936 4003
- Pensacola, FL 850 432 6501
- Jacksonville, FL 904 738 7384
- Altamonte Springs, FL 321 397 0710

**Girard Environmental Services**

- West Palm Beach, FL 561-232-3673
- Tampa, FL 772-800-1797
- Port St. Lucie, FL 772-800-1796
- Ft. Lauderdale, FL 954-210-8048
- Website: [http://www.girardonline.com/](http://www.girardonline.com/)

**Greenfield Environmental, Inc.**

- St. Petersburg, FL 727 896 1266
- Website: [http://www.greenfieldenv.com/home.html](http://www.greenfieldenv.com/home.html)

**Handex Consulting & Remediation – Southeast, LLC**

- Fort Lauderdale, FL (954) 681-4077
- Delray Beach, FL (561) 243-9551
- Website: [http://www.hcr-llc.com/](http://www.hcr-llc.com/)

**HDR, Inc.**

- West Palm Beach, FL (561) 209-6600
- Website: [https://www.hdrinc.com](https://www.hdrinc.com)

**Hi-Tech Environmental Consultants, Inc.**

- 1541 Sunset Drive - Suite 204
- Coral Gables, FL 33143
- (305) 665-0883
- (305) 665-4285

**Hillman Consulting, LLC**

- Valrico, FL 813.838.0059
- Website: [http://hillmannconsulting.com/](http://hillmannconsulting.com/)

52
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<td>Jacobs Global Headquarters</td>
<td>1999 Bryant Street, Suite 1200, Dallas, TX 75201</td>
<td></td>
<td><a href="https://www.jacobs.com/">https://www.jacobs.com/</a></td>
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Metric Engineering
   Miami, FL   (305) 235-5098
   Ft Lauderdale, FL   (954) 533-7319
   Orlando, FL   (407) 644-1898
   Jacksonville, FL   (904) 260-1567
   Sarasota, FL   (941) 960-2179
   Website:   http://www.metriceng.com/career.html

MGM Innova - UNITED STATES
   Miami, FL   (800) 6000-MGM
                (786) 975-2188
   Website:   http://www.mgminnova.com/

Morse Zehnter Associates (MZA)
   West Palm Beach, FL   (561) 712-4777
   Website:   http://morse-associates.com/

Peer Consultants, P.C.
   1460 Gulf Boulevard, Suite 1103
   Clearwater, FL 33767
   (202) 478-2060
   (305) 819-8174
   http://peercpc.com

Peyton Bolin P.L.
   Fort Lauderdale, FL   954-316-1339
   West Palm Beach, FL   561-463-8255
   Orlando, FL   407-487-3040
   Tampa Bay, FL   813-867-3212
   https://www.peytonbolin.com/

PHS Engineering Corp.
   4100 N.E. 2nd Avenue - Suite 310
   Miami, FL 33137
   (305) 573-2240
   (305) 573-2276
   http://www.phsgroupinc.com/services.aspx
Photo Science  
Orlando, FL  
St. Petersburg, FL  
Website:  
http://photoscience.com/  
(407) 521-2262  
(727) 576-9500

Pine Jog  
West Palm Beach, FL  
Email: kaubry@fau.edu  
Website:  
http://www.pinejog.fau.edu/  
http://photoscience.com/

PPM Consultants  
Pensacola, FL  
Email: ppm.pensacola@ppmco.com  
Website:  
http://www.ppmco.com/  
850-429-1536  
ppm.pensacola@ppmco.com  
407-240-1127  
ppm.orlando@ppmco.com  
http://www.ppmco.com/employment/

Professional Service Industries, Inc.  
2000 Avenue P-Suite 16  
Riviera Beach FL 33404  
(561) 844-2404  
(800) 548-7901  
http://www.psiusa.com/  
(561) 844-2404  
(800) 548-7901

Quest Ecology  
Wimauma, FL  
Website:  
http://questecology.com/  
(813) 642-0799

Ramboll Environ  
Tampa, FL  
Website:  
http://www.ramboll-environ.com/careers  
813 628 4325

S&ME, Inc.  
Orlando  
1615 Edgewater Drive, Suite 200,  
Orlando, FL 32804  
407.975.1273  
Tampa  
111 Kelsey Lane, Suite E,  
Tampa, FL 33619  
813.623.6646  
http://www.smeinc.com/
SCS Engineers
Miami, FL  305-412-8185
Boca Raton, FL  954-571-9200
Orlando, FL  407-204-3231
Tampa, FL  813-621-0080
Website:  http://www.scsengineers.com/

Solid Waste Authority of Palm Beach County
West Palm Beach, FL  (561) 640-4000
Website:  http://www.swa.org/

Sutron Corporation
2253 Vista Parkway - Suite 14
West Palm Beach, FL 33411
(561) 697-8151
(561) 333-2760
http://www.sutron.com/

SWC Environmental
Key West, FL  (305) 294-1238
Website:  http://www.swcinc.net/

Taylor Engineering, Inc.
1675 Palm Beach Lakes Blvd - Suite 210
West Palm Beach, FL 33401
(561) 640-7310
(561) 683-4551
http://tayloengineering.com/

Tessier Consulting, LLC
Jupiter, FL  561-307-0984
Website:  http://www.ahydrologist.com/

Tierra Consulting Group
Fort Lauderdale, FL  (877) 941-9837
(954) 202-9226
Website:  http://tierraconsulting.com/
TRC Engineers, Inc.
Gainesville, FL 352.378.0332
Gulf Breeze, FL 850.916.0506
Palm Beach Gardens, FL 561.681.3494
Maitland, FL 315.775.3262
Website: http://www.trcsolutions.com/

T.Y. Lin International Group
Coral Gables, FL 305.567.1888
Fort Lauderdale, FL 954.491.5556
Fort Myers, FL 239.332.4846
Orlando, FL 407.563.7101
Tampa, FL 813.972.9444
Website: http://www.tylin.com/en/about/careers

U.S. Army Corps of Engineers
Palm Beach Gardens, FL (561) 472-3500
Website: http://www.saj.usace.army.mil/

U.S. Fish and Wildlife Service
Southeastern Region (561) 732-3684
Website: http://www.fws.gov/humancapital/job_seekers.html

Water Management Districts of Florida
Northwest Florida WMD (850) 539-5999
Website: https://nwfwater.com
Suwannee River WMD (386) 362-1001
Website: http://www.srwmd.state.fl.us/
St. Johns River WMD (386) 329-4500
Website: http://www.sjrwm.com/
Southwest Florida WMD (352) 796-7211
Website: http://www.swfwmd.state.fl.us/
South Florida WMD (561) 682-6012
Website: http://www.swfmd.gov/

Woolpert
Miami, FL (305) 418-9370
Orlando, FL (407) 381-2192
Website: http://www.woolpert.com/
Environmental Science Employment by State


Employment of environmental science and protection technicians, including health by state, May 2018

Blank areas indicate data not available.
Employment of environmental science and protection technicians, including health by area, May 2018
Career Resources on the Web

- **Occupational Outlook Handbook**
- **Ferguson’s Career Guidance Center**: Log on to this site using the User Name: PBSC and the Password: PBSC. This web site is an outstanding resource for exploring occupations and the industries employing various occupations. Licensed by the College for Palm Beach State College student use, this is a must see web site!

- **ONet Online**: Research occupations in the ONET database by keyword, ONET code or by Job Family. Obtain a summary or an in-depth report about the occupation selected. Résumé samples, interview questions, and many career related articles.

- **Employ Florida**: On the homepage, it will allow you to enter the field you are looking for a job in, the city, and zip code. This page also lets you select a specific occupation and learn more about the nature of the work, educational opportunities, wages, and employers. You may search for information by any county in the State of Florida.

- **WETFEET**: This site provides a wealth of information on various career fields, industries, companies, salaries and internships. It also provides many personal accounts from people who have worked in certain companies.

- **Jobstar Salary Information**: Over 22 salary surveys.

  - **Environmentalscience.org**: Loads of job postings and career research that can be tailored to a specific degree. It also has job postings and information for literally every career branch under the Environmental Science umbrella. This page is a must see!
Opportunities for Internships, Volunteering, and Field Experience

The following websites offer various opportunities, which may lead to future employment:

AmeriCorps
http://www.nationalservice.gov/programs/americorps

South Florida Information Access

Florida Department of Environmental Protection
http://www.dep.state.fl.us/southeast/admin/internship.htm

Arthur R. Marshall Foundation for the Everglades
http://www.artmarshall.org/

The Student Conservation Association
http://www.thesca.org/

Marine Laboratory & Aquarium
https://mote.org/research/internships

South Florida Water Management District
http://www.sfwmd.gov/portal/page/portal/xweb%20protecting%20and%20restoring/volunteer
ng

University of Florida Plant Molecular & Cellular Biology
http://pmcb.ifas.ufl.edu/

University of Florida Whitney Laboratory for Marine BioScience
http://www.whitney.ufl.edu/

FAU College of Science
http://www.science.fau.edu/internships.php

Loggerhead Marinelife Center
http://marinelifed.org/

Gumbo Limbo Nature Center
http://www.gumbolimbo.org/

The Nature Conservancy
http://www.nature.org/

Florida State Parks
http://www.floridastateparks.org/

Environmental Science
http://www.environmentalscience.org/internships
Job Boards

The Wildlife Society
http://careers.wildlife.org/c/search_results.cfm?site_id=8764

Environmental Career Opportunities, Inc.
www.ecojobs.com

Environmental Jobs .com
http://environmentaljobs.com/environmental-engineering-jobs.htm

Environmentalscience.org
http://www.environmentalscience.org/careers

Ornithological Societies of North America
http://www.osnabirds.org/Jobs.aspx

Society for Conservation Biology
http://www.conbio.org/professional-development/scb-job-board

Society for Ecological Restoration International
http://jobs.ser.org/

Palm Beach State College Career Center
https://www.palmbeachstate.edu/career/handshake/default.aspx

State Government Job Boards
https://peoplefirst.myflorida.com/peoplefirst(bD1lbiZjPTIzMA==)/logon.htm

Employ Florida
https://www.employflorida.com/

Federal Job Board
http://www.usajobs.gov/

Texas A&M Job Board
http://www.tamu.edu/about/employment.html
For those interested in GIS JOBS, GISP CERTIFICATION, AND GEOSPATIAL CAREERS please visit

http://web.sonoma.edu/gep/ciga/geospatial-job-boards.html

https://www.gisjobs.com/
New Resources for GIS Job Seekers

By Adena Schutzberg, Directions Magazine (Originally published September 2012)

If you took a break from your job search over the summer, September might be the right time to jump back into the fray. Here are some new resources that can help GIS job seekers in their quest.

- The new eBook, titled “Careers in GIS: an Unfiltered Guide to Finding a GIS Job,” was published in April and offers content from the blog of the same name complemented by new material. The $4.99 price tag (Kindle or Kindle software only) makes it quite accessible for job seekers at any point in their career. Author Todd Schuble also offers career advice at @careersingis.

- The Association of American Geographers (AAG) offers a series of books about geography careers in science, technology, engineering and mathematics (STEM) and academia.

**Practicing Geography: Careers for Enhancing Society and the Environment** is a comprehensive new resource from AAG and Pearson designed to prepare students for STEM careers in business, government, and non-profit organizations. Funded by the National Science Foundation, this project brings together members of the geography community to discuss workforce needs, expectations and core competencies in professional geography, profiling the professional applications of, and opportunities in, geography today. Practicing Geography presents dozens of geographers applying their knowledge, skills and perspectives in communities, businesses, government agencies and nonprofit organizations, both domestically and internationally.

- The Bureau of Labor Statistics offers the Occupational Outlook Handbook which includes a page on geographers. The outlook between 2010 and 2020 is good; job growth is expected to be 35%.

- GIS Lounge did a spatial analysis of jobs in the U.S. earlier in the year and while patterns certainly change, I suspect the hotspots will hold for a few more months.

- Justin Holman of TerraSeer offered advice on How to Launch a GIS Career at the Geographical Perspectives blog in February. He followed up with a related post:
  - Spatial Career Guide for Undergrads Currently Studying GIS – Curriculum Suggestions for 6 Geospatial Career Paths. I also recommend the four-part series that begins with Geospatial Career Q&A with Undergraduate and includes:
    - Geospatial Career Q&A with Undergraduate Part 2 – Summer Suggestions
    - Geospatial Career Q&A with Undergraduate Part 3 – Hitting the Job Market
    - Geospatial Career Q&A with Undergraduate Part 4 – Long Term Career Planning

- GIS Stackexchange has some valuable answers on the topic of interview questions for the GIS Analyst position. Searching other terms such as “interview,” “job” and “position” turns up some other valuable answers for job seekers.
• Esri hosts a number of blog posts on careers and related topics and hosts a #esrijobchat (a Twitter chat) twice a month on Thursdays at 1 p.m. Pacific. While there is a focus on positions and information related to Esri, much of it is applicable to other employers.
• My colleague, Joe Francica, and I have written a few articles in the last year that may help job seekers.
  Five Ways to Make Your GIS Cover Letter and Resume Stand Out
  Should All GIS Users Learn to Code?
  The Top Five Skills Needed to Have a Successful GIS Career
  Ignite Education: Why I Tossed Your Admission Application

**Geospatial Occupations Q&A – Part One**
By Directions Staff (Originally published October 2010)

On September 30, Penn State University and Directions Media presented a webinar titled The New Geospatial Jobs and How to be Ready for Them. A total of 940 people registered to attend the webinar, 506 attended live, and 181 people since have downloaded and viewed the archived version. Needless to say, far more questions were asked during the webinar than could be answered. The three speakers, Richard Serby of GeoSearch, and David DiBiase and Wes Stroh, both from Penn State University, responded in detail to all the questions that weren't addressed. Those responses are provided in this two-part article. Part 1 addresses the Geospatial Technology Competency Model, education and certification questions. Part 2, which will appear next Wednesday, will address jobs and job titles.

**Certification**

**Q: Can you give us the link to the GIS Certification program?**
**WS:** The terms certificate and certification are often confused. Educational institutions offer certificates acknowledging success in a program of study, such as Penn State's Postbaccalaureate Certificate in GIS. Professional certifications are offered by a variety of professional organizations and designate experience and competency. GISP (GIS Professional) certification is offered by the GIS Certification Institute. Other professional certifications are offered by organizations such as American Society for Photogrammetry and Remote Sensing (ASPRS) or formal licensing for surveyors such as National Council of Examiners for Engineering and Surveying (NCEES).
Education

Q: Do you feel like universities and community colleges are adequately training students for a future in the geospatial industry?
Rich Serby (RS): Yes, I believe that when we view educational opportunities in total that colleges and universities are doing a good job preparing students. We are seeing more community college and even high school programs coming on line that speak to the need for internship and entry-level basic skills. Add these to the number of online opportunities and it appears that colleges and universities are responding to the need.

Q: I see numerous programs online and at campus locations for master's degrees in geospatial studies. Why is it so difficult to find a bachelor degree program in geospatial studies?
WS: There are actually bachelor programs with coursework focusing in geospatial, though they tend to be part of or a track within a geography department. URISA has a useful list and the GeoTech Center mentioned during the webinar has resources for students. Online bachelor's programs are less common - demand to date has been focused on skills development and master's level work for continuing education, but that is likely to change as the industry grows.

Q: If I'm considering a certificate or advanced degree, how can I compare programs to determine which will best prepare me for acquiring a job?
WS: You should consider a number of elements, including your work experience to date and your future professional goals. It can be useful to consider the location where you hope to work when finished - programs are a great opportunity for networking with other professionals. Look carefully at the required coursework to determine what skills/knowledge you're going to solidify and what new skills/knowledge you'll take away. Also, consider the program electives - do they match up with your area of interest? Ask for course syllabi and find out what faculty member is teaching in the program. (Though tenured academics are at the forefront of GIS research, adjuncts who work in the field may have more applied knowledge or experience with specific software.)

Q: I am getting a BS in Geography with a minor in GIS. Would it be wise to continue and get a master's degree in GIS?
WS: Additional education is never a bad choice, but many MGIS programs (and professional programs in general) are designed as continuing education for individuals with grounding in the field. In most cases, your experience in a professional Master’s program will benefit from some prior work experience.
Jobs/hiring trends

Q: Are there "hot spots" in the country for geospatial jobs? Do you have any advice for getting U.S. Department of Labor or other data on the geospatial job outlook by metropolitan region?

Wes Stroh (WS): Washington, DC and Denver have historically been "hot spots." As discussed on the call, there's been no formal research into this topic, but you can expect more as data is collected on the new occupations.

Q: What would you estimate the percentage of employees that work only part time as "Geospatial Technician/Analyst"? In other words as only a part of their job? What's the outlook for freelance or part-time employment in the GIS industry?

Richard Serby (RS): I may not be the best person to answer this because the vast majority of positions we deal with are either full-time/permanent or contract staffing for specific periods of time. The need for part-time employees is specific to an employer, project deadlines, and seats available. Be ready to work second shift or from a home office.

Q: How are the job opportunities distributed between businesses and local governments? Is GIS job growth more in the private or public sector? Have local governments been laying off a lot of GIS positions?

RS: Job growth in the commercial sector is often a function of the needs of the public sector. Public sector projects are often completed by private companies. We are hearing more 'insourcing' talk coming from the federal level. We feel that this is a negative trend and that our public agencies should always be pressured to outsource their work to the commercial sector. Once a function becomes institutionalized within government it is very difficult to reduce or eliminate. The private sector is better able to change when the times change.

Q: Which "verticals" in the private sector are doing the most hiring?

RS: I can only speak from our most recent 2010 activity but we see an increase in engineering design activity from sales, project management, GIS software development, applications development such as environmental, and production GIS technicians and specialists.

Q: Most of the jobs I've seen require 3-5 years of GIS work experience to apply. How do I get those first 3-5 years?

David DiBiase (DD): Direct contact with potential employers and internship opportunities.

Q: I am also a GIS intern, I have interned (paid) for the US Army Corps of Engineers and FEMA Region III in Philadelphia. I am still having a difficult time finding GIS positions. Can I use these as 'experience' time in because they were after college at the BA level.

WS: Absolutely. As Rich and David pointed out, networking is the ideal way to maximize your job prospects. Stay in touch with intern supervisors, ask them about openings, and ask them to put you in touch with their contacts. And by all means, highlight skills which you've developed as an intern.
Q: I just finished a community college GIS certificate. I've been an IT support technician for the past 15 years and am looking to jump into the GS discipline. What is the outlook for someone without a Bachelor's degree (yet)?

RS: The geospatial world is still very much a skills-based industry at the entry-senior technical levels. If you acquire skills that progress from a 'GIS user' to a 'GIS specialist' to a 'GIS programmer/developer' you become increasingly important to your employer. It is important to continue your formal education beyond the associate's because there are still many great jobs where a bachelor's degree is required to be considered for an interview.

Occupation titles/outlook/growth

Q: Does the Department of Labor have average salary information on the website?

WS: Yes, you'll find salary information for each occupation. However, the many definitions are new and we can expect the data to be more accurate over time.

Q: What's the best place for job posts?

RS: GeoSearch, of course!
Continuing Your Education

The Environmental Science Technology program does have some special agreements called articulation agreements with various public and private higher education institutions in the state of Florida that may allow for the transfer of some or all of your A.S. degree coursework. To learn more about these options contact Dr. Miles or visit: http://www.palmbeachstate.edu/programs/environmentalscience/

Use https://www.floridashines.org/ for online educational opportunities and student advising at your fingertips.

**Palm Beach State College.** Our Environmental Science and Technology AS degree courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at http://www.palmbeachstate.edu/programs/bachelor/

**Broward College.** Broward College offers a Bachelor’s in Environmental Science with two tracks (Biosecurity and Physical Science). They will directly take our A.S. degree as a transfer into their program, allowing you to start as a junior. Graduates from PBSC’s Environmental Science A.S. have been accepted to Broward College and graduated from there and can share their positive experiences. Earn your B.S. in Environmental Science with just two more years of schooling at a considerable cost savings as compared to other local universities. GREAT OPTION.

**University of Central Florida.** The Environmental Studies track is a program that prepares students for a number of interesting and challenging careers. Its interdisciplinary nature provides students with tools that can be applied across a spectrum of science, social behavior, and humanities, using the strengths of the various areas. Students seeking journalistic or artistic careers will gain a scientific background by which to understand environmental science, while students going into the sciences will appreciate the social, political, and ethical dimensions of environmental actions and policy decisions. Interdisciplinary Studies - Environmental Studies Track BS. An Environmental Engineering BSEnvE is also offered at the college.

**Florida Gulf Coast University.** With the Bachelor of Science in Environmental Studies, students gain a thorough grounding in methods, applications, and natural sciences, in addition to a core of courses in common to the field. Students may choose an emphasis, within fields including: human populations and their interactions with the environment; effectiveness of environmental analysis and protection institutions; and analysis and resolution of the pressing environmental issues faced by modern society. The Bachelor of Arts in Biology Students will gain an understanding of interactions between organisms and their environments (including especially biomedical and evolutionary perspectives). Ethical complexities of biological research are integrated throughout the curriculum. Pedagogically, emphasis is on lab-centered, hands-on learning rather than the traditional lecture format.

**Indian River State College.** Bachelor of Science in Biology (BS) Discoveries in Biology will transform the 21st Century. If you are interested in a fascinating career in the life sciences, a Bachelor of Science Degree in Biology will open the door to meaningful job opportunities and continued education. You will gain a firm foundation for a rewarding career in biotechnology, medicine, veterinary, pharmaceuticals, environmental science or research that improves health and saves lives.

**Barry University.** Offers Environmental Chemistry Specialization: Bachelor of Science (BS) in Chemistry. An environmental chemistry track augments the chemistry major. This track emphasizes chemistry in the study of environmental problems and includes relevant courses in biology, ethics, and social sciences. It prepares future graduates to become a part of the burgeoning environmental science field.
**University of Florida.** This school offers a 4-year plus 1 program, combining the bachelor’s degree in environmental science and the Master of Science in interdisciplinary ecology. The environmental science degree approaches complex environmental issues with reliable knowledge and interdisciplinary perspectives, and provides the full range of knowledge relevant to complex environmental problems. This includes biological and physical sciences, ethics, economics, policy, and law. In addition, the college of Agricultural and Life Science offers a Biology major that allows students to develop a broad, integrative background in the biological sciences.

**University of Florida in Ft. Lauderdale.** Excellent careers await students with the proper academic preparation in the broad range of geographic information sciences. Students who graduate from the UF Geomatics Program are in high demand. Within 5 years, most Geomatics graduates own their own business or are a partner in a business. Starting salaries for graduates typically approach $50,000.

**Florida Atlantic University.** FAU offers many different Environmental Science Routes. The Bachelor of Arts in Biology degree will provide maximum flexibility for students pursuing study in interdisciplinary areas such as environmental science or secondary school teaching. The Department of Geosciences offers undergraduate degree programs leading to a Bachelor of Arts or a Bachelor of Science with a major in either Geography or Geology with an emphasis in Environmental Science. Additionally, a Master of Science degree track in environmental engineering under the civil engineering graduate degree program is available. This program provides a strong environmental component to the undergraduate curriculum. In the near future, the department plans to expand its graduate studies program by offering a Master of Science in environmental engineering and a Doctor of Philosophy (PhD) in infrastructure engineering. A Bachelor of Science degree in environmental engineering is also in the planning stages. http://www.cege.fau.edu/

**Palm Beach Atlantic University** offers you high-quality training in Biology, Chemistry, Physics, Oceanography, Earth Science, Mathematics and Computer Science. Our courses instill in you the values of intellect, Christian character and personal integrity. Degrees are available in the Biology field with a Concentration in Botany, Environmental Science, & Field Biology.

The **South University Online Master of Business Administration – Sustainability** is designed to prepare students for the practical application of sustainability concepts and practices in their business and professional careers. Graduates will be prepared for jobs such as Consultant, Departmental or sub-department Manager or individual contributor positions focused on responsibility for corporate social responsibility, sustainability or environmental concerns and social entrepreneurship. **Click here, for more information about the South University Master of Business Administration – Sustainability.**

**University of Miami.** The Department of Biology offers undergraduate programs for students interested in a natural science education that will prepare them for careers in biological research, medicine and other health-related fields, teaching, environmental management. In addition, the Department of Biology trains students to understand and use the scientific method, and to engage in critical thinking and experimental design.

**Stetson University School of Business Administration and College of Law – The Institute for Biodiversity Law and Policy** and Stetson’s School of Business Administration offer a concentration program for J.D./M.B.A. students in Eco-Asset Management, which provides a multidisciplinary foundation for students interested in business and the environment. In addition to writing requirements to earn the certificate, students must complete at least 12 hours of graduate electives covering the management, scientific and legal aspects of handling environmental resources. Students also must complete an internship with an environmental organization.

**University of South Florida St. Petersburg, MBA – Concentration in Corporate Social Responsibility, St. Petersburg.** The Corporate Social Responsibility concentration will develop a student’s understanding of ethical management, marketing and decision-making. Students will explore the ethical and behavioral issues faced by corporations as they manage organizational change and serve multiple stakeholders. Ethical social responsibility provides the foundation
of this concentration. The program presents an economic analysis of business’ and government’s approaches toward environmental issues and their associated ethical, equity and efficiency implications.


NOVA Southern University. The environmental science/studies major at the Farquhar College of Arts and Sciences involves the systematic study of the environment and man’s place in it. Consequently, it is highly interdisciplinary—integrating chemistry, geology, biology, statistics, atmospheric sciences, engineering, and physics together with social sciences and humanities in a broad, holistic study of the world. The fundamental issue addressed by environmental science is how to continue making improvements in human welfare within the limits of the earth’s natural resources.

Online Programs

As you work toward the completion of your associate's degree, you may wonder about continuing on with your education. In the science field, it is certainly a wise step to consider pursuing a bachelor's degree. Many high ranking positions in the field of environmental science require a 4-year degree. With a college degree becoming the standard in today's workforce, the decision to pursue a 4-year degree not only can yield a higher salary but can give environmental science professionals a step up in their field, allowing them to pursue their passions at a higher and more direct level.

The following publication of America’s Top Online Bachelor’s in Environmental Science Programs highlights schools whose distance programs exceed the standards for studies in environmental science! So if an online education is desirable, please review this resource. Also included is an employment outlook summary and all can be found here:

- Top Online Bachelor's in Environmental Science Programs
- Employment Outlook for Environmental Science Graduates

University of Florida Online: The UF Online Bachelor of Science in Interdisciplinary Studies in Environmental Management in Agriculture and Natural Resources degree prepares you for a variety of careers in niche fields within the agricultural, environmental, and natural sciences sectors. The UF Online Bachelor’s programs also include a Bachelor of Arts in Biology, Bachelor of Science in Environmental Management, Bachelor of Arts in Geography, and Bachelor of Arts in Geology.

Environmentalscience.org: This website is an excellent resource for all types of Environmental Science careers, internships, and degree programs. It has extensive information on colleges/universities all over the country that feature strong environmental science programs.
Florida Colleges and Universities

Acupuncture and Massage College
Ai Miami International University of Art and Design
American Intercontinental University
Argosy University-Sarasota Campus
Argosy University-Tampa Campus
The Art Institute of Fort Lauderdale Inc
Atlantic Institute of Oriental Medicine
Audio Recording Technology Institute
Ave Maria University
The Baptist College of Florida
Beacon College
Bethune Cookman College
Broward College
Carlos Albizu University-Miami Campus
Central Florida College
Chipola College
Christ College of Florida
City College
City College Branch Campus
Clearwater Christian College
College of Business and Technology
DeVry University-Florida
East West College of Natural Medicine
Eckerd College
Embry Riddle Aeronautical University-Daytona Beach
Embry Riddle Aeronautical University-Extended Campus
Everest University
Everglades University
Faith Theological Seminary And Christian College
Flagler College
Flagler College-Tallahassee
Florida Agricultural and Mechanical University
Florida Atlantic University
Florida Christian College Inc
Florida Coastal School of Law
Florida College
Florida College of Integrative Medicine
Florida Gulf Coast University
Florida Hospital College of Health Sciences
Florida Hospital School of Medical Technology
Herzing College
Hobe Sound Bible College
International Academy of Design and Technology
International College
ITT Technical Institute
Jacksonville University
Johnson & Wales University-Florida Campus
Jones College-Jacksonville
Keiser College-Ft Lauderdale
Key College
Le Cordon Bleu College of Culinary Arts-Miami
Lynn University
Miami Ad School
Miami Dade College
New College of Florida
New Covenant International University
Northwood University-Florida Education Center
Nova Southeastern University
Okaloosa-Walton College
Palm Beach Atlantic University-West Palm Beach
Reformation International College
Reformation International Theological Seminary
Remington College
Remington College-Tampa Campus
Ringling School of Art and Design
Rollins College
Saint John Vianney College Seminary
Saint Leo University
Saint Thomas University
Saint Vincent de Paul Regional Seminary
Schiller International University
South University-West Palm Beach
Southeastern University
St Petersburg College
St Petersburg Theological Seminary
Stetson University
Talmudic College of Florida
Trinity Baptist College
Trinity College of Florida
We wish you the best in your future career!

Environmental Science Technology Program
Palm Beach State College