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Florida Keys Wild Bird Center | www.keepthemflying.org

- Ashley Bucklin (Biochemistry, 2015)
- Hospital Intern
- Full-time, 40+ hours per week (On-Call at all hours, 2 nights a week)
- Paid

What do you do as an intern at this organization?
I help run the wild bird hospital, which takes in 5-10 patients (injured wild birds) on an average day and cares for around 150 patients in total. Between three of us, we clean every cage twice daily, administer medications and fluids, stitch up lacerations on new patients, control anesthesia for any procedures, and do anything else that the birds need. Twice a week I have a cell phone linked to the bird emergency line, which anyone who finds a bird in a fifty mile radius can call. When someone calls, I pick up the birds and admit them to the hospital.

How did you find your internship?
The hospital has an associated sanctuary where all permanent resident birds live, which is open to the public. I had visited the sanctuary many times and last spring break I stopped an employee to ask whether they offered internships. I got the email address of the head rehabilitator and emailed her my resume. A few weeks later I had a skype interview and was offered the position.

What do you enjoy most about your internship?
Every new patient requires a new treatment plan and that means I learn new skills almost every day, including new animal handling skills that I'm developing constantly. I can now handle both raptors (who tend to attack with their talons) and cormorants/herons (who tend to attack by stabbing with their beaks) well enough to give them shots and or tube feed them.

What do you find challenging?
I live very far from almost everything down here and I work a LOT of hours between actual work hours and my nights on call, which makes driving up to Miami (the closest actual city) pretty much impossible. It can be kind of boring, but I get over that pretty quickly when an injured bird shows up.

What advice would you offer to someone who wants to make the most of an internship like yours?
If you want an internship with animals, find the organization and email your resume, or even better - call them, even if they don't list an internship online. This internship wasn't listed anywhere, but by reaching out in person I managed to find it. Working with animals is hectic, and people generally don't take the time to advertise an internship because they just don't have the time. That also means many places won't have the time to respond to you, but you never know until you try! Pick a type of institution you want to work for, make a list of those in your area, and get your resume to every single one.

About the Organization
The Florida Keys Wild Bird Center is a not for profit 501(c)3 conservation organization dedicated to the rescue, rehabilitation, and release of native and migratory wild birds that have been harmed or displaced; providing or locating a humane shelter for those birds that cannot be released; and educating the public toward the importance of coexistence with all wild bird species.
Mystic River Watershed Association | www.mysticriver.org

- Jessica Haitz (Environmental Engineering, 2016)
- Bacteria Analyst Intern
- Full-time, 35 hours per week
- Paid

What do you do as an intern at this organization?
I am working on the Recreation Flagging project. The goal of the project is to create a model to predict real-time bacteria levels for the benefit of swimmers and boaters. I spend the mornings collecting water samples from six locations in the watershed. Then I go to the Tufts engineering lab to analyze the samples for bacteria. Afterward, I go to the MyRWA office to do turbidity analysis on the samples and to input and organize the data.

How did you find your internship?
I heard about MyRWA from another environmental engineer who had interned with them last summer. Also, my advisor sent us an email about the open position.

What do you enjoy most about your internship?
I love that I get to spend the mornings outside and that I don't spend my entire day behind a desk. The internship is an enjoyable combination of fieldwork, lab work, and office work.

What do you find challenging?
I am the only intern working on this project, so the full responsibility is on me. I have to figure things out on my own, such as when problems arise in the lab and managing the data with the software. However, my superiors are really supportive and always willing to help me, which is great.

What advice would you offer to someone who wants to make the most of an internship like yours?
Be persistent after you submit your application. My superiors told me they liked how I kept contacting them for updates on my status. Also, don't hesitate to ask the other employees questions; they are all so knowledgeable. I've learned so much by asking random questions during morning sampling, whether it be environmentally-related or not.

About the Organization
Mystic River Watershed Association
Arlington, MA

The Mystic River Watershed Association's mission is to protect and restore the Mystic River, its tributaries and watershed lands for the benefit of present and future generations and to celebrate the value, importance and great beauty of these natural resources.
Nano Catalysis and Energy Laboratory, Tufts University | http://ase.tufts.edu/nano-cel

- Sylvia Lustig (Chemical Engineering, Music minor, 2017)
- Research Assistant
- Full-time, approximately 35 hours per week
- Unpaid but receiving Tufts Summer Scholars grant

What do you do as an intern at this organization?
I research the efficiency of metal catalysts for the dehydrogenation of alcohols. My daily work consists of synthesizing copper nanoparticles and alloying them with platinum or palladium. I test the catalysts in a reactor and analyze mass spec data to determine activity and selectivity.

How did you find your internship?
I emailed Professor Stephanopoulos in December expressing interest in her research. I asked to work in her lab during the summer and she suggested that I begin in January for credit and apply for summer funding via Summer Scholars or the chemical engineering departmental scholarship.

What do you enjoy most about your internship?
My research feels like a combination of cooking and potions. My favorite part is the catalyst synthesis because it’s stereotypical chemistry in real life: bubbling solutions, changing colors, etc. I love that I can turn cooking into research that is advancing sustainable energy development.

What do you find challenging?
Building a sense of community in the lab is challenging. There are other PhD students and post-docs, but we are all working on our own projects and I am the only undergraduate. It is also hard to communicate due to a significant language barrier, but I know that it is an important skill to master.

What advice would you offer to someone who wants to make the most of an internship like yours?
Reach out early to a professor and don’t be afraid to send a cold email with a resume expressing interest in their research and asking about opportunities to work with them. Don’t feel like you need to find the perfect research project. I just looked on the department website and emailed one at a time!

About the Organization
Nano Catalysis and Energy Laboratory, Tufts University
Tufts Science and Technology Center, Medford, MA

Research conducted at the Tufts NanoCEL aims at applying principles of heterogeneous catalysis to the solution of problems in the production of clean energy. These include catalytic fuel conversion to hydrogen-rich gas mixtures and oxidation and reduction reactions that convert pollutants (CO, SO2, NOx) to innocuous species. Emphasis is on the identification of the important catalyst structures for enhancing a desired reaction pathway.
Elizabeth Buechler (Mechanical Engineering, 2017)
Research Intern (SULI Program)
Full-time, 40 hours per week
Paid

What do you do as an intern at this organization?
I am researching the energy performance of homes built for the Department of Energy Solar Decathlon competition. In addition to my research, I regularly meet with my two research mentors, go to professional development classes, and attend talks about research at NREL in various fields.

How did you find your internship?
I found my internship (Science Undergraduate Laboratory Internship) on the NREL website.

What do you enjoy most about your internship?
This internship has been an amazing experience. It is great to work at a place where advanced renewable energy research is being performed. Outside of work, it has been great hiking, biking, and exploring the Colorado outdoors.

What do you find challenging?
The internship program requirements are to write a research paper and present at a poster session at the end of the summer. Initially I found all the technical writing that I was required to do challenging, but I have improved tremendously over the course of the summer.

What advice would you offer to someone who wants to make the most of an internship like yours?
If you want to get scientific research experience, national laboratories are a great place to get an internship. The application requires several essays and a couple of letters of recommendation, so make sure you get an early start on it.

About the Organization
National Renewable Energy Laboratory (NREL)
Golden, CO

At NREL, we focus on creative answers to today's energy challenges. From breakthroughs in fundamental science to new clean technologies to integrated energy systems that power our lives, NREL researchers are transforming the way the nation and the world use energy.
New England Wildlife Center | http://wildlife-education-center.com

- Laura Coughlin (Biochemistry, 2016)
- Wildlife Rehabilitation Medicine Intern
- Full-time, 55 hours per week
- Unpaid but receiving Career Center Internship Grant

What do you do as an intern at this organization?
The Center strives to immerse its interns in all aspects of wildlife medicine, so interns are involved in everything from determining treatment plans for newly admitted animals to administering medications to basic care of the animals (feeding, cleaning cages, etc.). I also assist vets during surgeries by monitoring anesthesia and assist vet techs in performing radiographs and blood diagnostics.

How did you find your internship?
I found this internship when I was looking through the TIP Book Profiles from past years.

What do you enjoy most about your internship?
I really enjoy getting the opportunity to work with so many different species of animals. Every day of work is different; people are always finding different animals that are orphaned or injured and bringing them to the Center for care. Just today, I've provided care for several raccoons, squirrels, red tailed hawks and a great blue heron, and those are just a few of the many animals currently at the Center. In addition, the job itself is incredibly rewarding. To watch an animal come in with an injury and then be able to release that animal back into the wild after several weeks of care is an amazing experience.

What do you find challenging?
The hours are challenging. They are advertised as 9 - 5 pm, but be prepared to stay much longer, as the vets and interns work until everything is done for the day. Most days the interns did not get out of work until 8pm or later, which can be frustrating, as you sort of miss out on a relaxing summer where you get to have a social life. But that being said, I believe the internship is completely worth it. The staff are extremely supportive, and you get tons of hands-on experience. It just would've been nice to know exactly what I was getting myself into before I started the internship.

What advice would you offer to someone who wants to make the most of an internship like yours?
Ask questions. The first few weeks of the internship are very overwhelming because interns are thrown into helping with meds and procedures and animal care from day one. I found it helpful to ask questions because there's so much that you're learning in such a short period of time. The vets and vet techs are really dedicated to helping interns learn as much as they can during their internships, so they're a great resource not only for help, but also for information about career paths and vet medicine in general. The deadline for summer interns is February 15, and winter/fall interns are accepted on a rolling basis.

About the Organization
New England Wildlife Center; Weymouth, MA

New England Wildlife Center is a non-profit that uses humane care of injured and orphaned wildlife as a platform for teaching conservation and basic biology to K-12 students and veterinary medicine to undergraduate students. As the only wildlife hospital in the metro-Boston area, it operates on the principle that every animal deserves care and has provided treatment for over 100,000 wild animals since its founding.
Molly Greer (Geology, Environmental Studies, 2016)
Student Intern
Part-time, 16 hours per week
Paid

What do you do as an intern at this organization?
As an intern at Towill, I assisted with many mapping projects. Some of my responsibilities were matching aerial photographs with known ids from Google Earth, distinguishing structures in LiDAR data, and working with the project manager on other aspects of ongoing projects.

How did you find your internship?
Port of Oakland

What do you enjoy most about your internship?
At Towill, I was able to learn about a different aspect of mapping -- and with that, many new softwares.

What do you find challenging?
Learning new computer programs

What advice would you offer to someone who wants to make the most of an internship like yours?
Ask a lot of questions because the people you are working with do not expect you to understand everything that you are doing.

About the Organization
Towill
Concord, CA

Towill, Inc. is a premier provider of geomatics services and technologies offering a broad range of advanced surveying, mapping, and geospatial solution services which include land surveying; high accuracy specialty surveying; digital and film-based aerial photography; airborne, terrestrial, and mobile Light Detection and Ranging (LiDAR); digital 3D and 2D photogrammetric mapping; volumetrics; and geographic information systems (GIS). Building on a successful business established in 1955, Towill has continually maintained a reputation for innovation and excellence in the geomatics profession. We have grown into an industry leader with approximately 100 employees in offices strategically located throughout California, Colorado, and Texas, offering our services throughout the United States and Pacific Rim.
Ellen Osborn (Quantitative Economics, Environmental Studies, 2016)
DOE Scholar Intern
Full-time, 45 hours per week
Paid

What do you do as an intern at this organization?
I support Senior Policy Advisors and Fellows with research projects, policy analysis, and data sourcing to further their projects and drive forward my own.

How did you find your internship?
It was a referral through an alumnus who sent the opportunity to the Tufts Economics Society.

What do you enjoy most about your internship?
Learning constantly – through the fellows, my research, and attending events and briefings within the DoE and around Washington D.C.

What do you find challenging?
Figuring out what and who to prioritize on a daily basis and ensuring that I am producing something useful.

What advice would you offer to someone who wants to make the most of an internship like yours?
Learn as much as you can about Energy Policy and your mentor’s projects before arriving; it will go a long way towards avoiding huge amounts of background research (required when contributing to projects). Once here, use the time you’re saving to meet new people with careers that interest you and ask them about their lives and interests. In terms of the application process, look up the Senior Advisors in the offices and what they’re working on. Email them, ask questions about their work, and let them know that you’re interested in working for them. This site has the application deadlines and qualifications: http://energy.gov/epsa/epsa-internship-program.

About the Organization
U.S. Department of Energy
Washington, DC

Recognizing that unbiased policy analysis will provide the best foundation for least cost, highest impact ways to transform our energy systems, Secretary Moniz launched the Office of Energy Policy and Systems Analysis (EPSA) within the Department of Energy in August 2013. EPSA advises the Secretary and senior leadership in DOE on critical energy issues and policies through analysis of and recommendations on the range of energy subsectors – from fossil fuels and renewable resources to transmission and distribution to efficiency and end uses. EPSA synthesizes and analyzes information from and collaborates with the Department’s program offices and the national labs. It also works with stakeholders from industry and NGOs and our Congressional, state, local and tribal partners to develop a more comprehensive, integrated and analytically based understanding of energy systems, various jurisdictions, and impacts to its participants. To develop policy responses to these issues and prepare for others, EPSA has teams focused on several policy areas, including climate environment and efficiency, energy security, finance, incentives and program analysis, and state and local cooperation.
UGE International | www.ugei.com

- Julia Malleck (International Relations, English, 2016)
- Business Development Intern
- Full-time, 45 hours per week
- Unpaid

What do you do as an intern at this organization?
I worked on finding potential Partners for the company in Asia, more specifically in South East Asia (e.g., Philippines, Cambodia, Sri Lanka, Indonesia, Micronesia). I also helped re-write and edit the material on the website about the Partners program. Along with the sales team, I helped put together a book of guidelines to standardize practices and interactions across the company and streamline our business model. Besides this, I did research.

How did you find your internship?
I found the internship through a friend. Her sister interned in the company's Beijing office and enjoyed her internship. My friend thought I might be interested as well.

What do you enjoy most about your internship?
I'm learning so much about the renewable energy industry (our company works in solar, wind and microgrid systems) and about start-up company culture. The most valuable thing I've learned is seeing how a company operates and cooperates between its many different teams. Because it is a start-up, our business model has been continually evolving. It's an exciting place to work.

What do you find challenging?
The technical details of solar, wind and microgrid engineering have been difficult to understand. I've also had to quickly learn the renewables industry business jargon (in the beginning there were so many words and acronyms I didn't understand). It also took me a while to figure out how to communicate -- via e-mail, phone, Skype etc. -- directly and clearly with people.

What advice would you offer to someone who wants to make the most of an internship like yours?
Be a team player and ask lots of questions. It's ok to say that you don't know or understand something. Join a team (e.g., logistics, marketing, public relations, engineering, legal, business development, etc.) that interests you most. There isn't a deadline for an internship at UGE; the company generally has interns year-round. Most interns come in the summer.

About the Organization
UGE International (New York, NY)
UGE provides the only comprehensive distributed renewable energy solutions with the necessary versatility, durability and energy security to be implemented across the range of challenging environments businesses and governments face. Solar and wind complement each other and together with storage technologies and remote monitoring systems address their needs at the nexus of energy cost, security and sustainability. We have designed and created the most durable and versatile wind turbine and are leading the industry in remote monitoring and control and power electronics. In addition, UGE has developed its proprietary site assessment and planning platform, which has allowed it to deploy solutions in over 80 countries around the world from its headquarters in New York.
• Joshua Rubman (Environmental Studies, Mandarin Chinese, 2016)
• Intern
• Full-time, 40 hours per week
• Paid; Mostly funded through Mass CEC

What do you do as an intern at this organization?
It’s a varied role in a startup environment. I develop marketing strategies, create original content for blogs and social media, translate and create content in Mandarin for a Chinatown outreach campaign, assess suitability of properties for solar installation, manage CRM systems, and conduct research on markets, technologies, and legislation.

How did you find your internship?
I posted my resume to Mass CEC’s website. They reached out to me.

What do you enjoy most about your internship?
I like that the startup environment provides a great opportunity for experiencing a huge diversity of work: from minute tasks to planning future company direction, I've gotten to do it all.

What do you find challenging?
It's difficult to adapt to such a detail-oriented environment. Professional standards are quite high.

What advice would you offer to someone who wants to make the most of an internship like yours?
Treat it like your real, adult job. You need to provide value to the company as soon as you walk in the door, and continue providing that value until you leave.

About the Organization
Yeloha
Boston, MA

Yeloha is the world's Solar Sharing Network™. Our mission is to unleash the benefits of solar energy to all people, regardless of where they live and their economic status. Solar Sharing removes the obstacles going solar once presented (including needing your own roof!), changing the way people generate and pay for their electricity. Yeloha makes it simple and attainable to save your money, support your local economy, and help save something else that could use your consideration these days: our planet.