

The Office of the Secretary of Higher Education (OSHE)

NJ Career Accelerator Internship Grant Opportunities by Major

Natural Resources, Sustainability, & Environmental Science

RenewCO2 Inc.

68 Veronica Avenue, Unit 1, Somerset, NJ 08873

R&D Internship, In-person, 2 open positions

Overview of Position

RenewCO2 is re-inventing chemical production using CO₂ emissions with a low-cost, high energy-efficiency, and carbon-negative electrochemical process. Our eCUT technology converts CO₂ into cost-competitive raw materials for plastics. We enable companies to meet emission reduction targets while producing sustainable materials at a profit.

We are inviting applications for a Summer Internship in Research and Development. This position is directed at evaluating the activity of CO2 electroreduction catalysts and the influence of process conditions on pilot performance. The candidate will receive first-hand laboratory experience in performing chemical analyses of products and tabulating and organizing large data sets, utilizing both Gas Chromatography (GC) and High-Performance Liquid Chromatography (HPLC), fabricating electrodes, developing standards of procedures (SOPs), designing measurement devices, preparing technical updates for mentors and stakeholders, and/or conducting market research on in-demand products. This candidate will work with a seasoned team of professionals, including a highly experienced engineer as a mentor for the entire duration of the internship. This dynamic position offers an opportunity to participate in various sub-research groups within the laboratory while being able to work independently and autonomously on tasks and innovative R&D. Activities will be performed in-person at the company's laboratory and office space in Somerset, NJ.

This 10-week internship is supported by various avenues of funding, including government agencies and private investments.

Responsibilities/Duties/Projects

R&D Internship duties can include the following:

- Support the development of a pilot process
- Perform electrochemical analysis
- Perform chemical analysis of products using GC and HPLC
- Perform mass and energy balance for the process
- Prepare technical updates for stakeholders
- Participate in market research

Qualifications

- Excellent written and oral communication skills and demonstrated ability to work as part of a collaborative team
- Willingness to take responsibility and ownership of projects either individually or as part of a larger team

- Ability to thrive in an unstructured environment
- Undergraduate, Graduate, or degree holder wishing to pursue a STEM career
- Citizen or Lawful Permanent Resident
- Have demonstrated STEM achievement and entrepreneurial interest
- Problem solving with sound logical thinking and analysis
- Attention to detail
- Ability to contribute to a culture of excellence, inclusion, respect, integrity, and teamwork
- High level of enthusiasm and strong commitment to gain experience in carbon utilization process development
- Knowledge and hands-on experience in research in Chemistry, Chemical Engineering, or Materials Science
- Knowledge and hands-on experience with Electrochemistry
- Experience with standard analytical chemistry tools such as GC, HPLC, and NMR
- Proficient in Google Workspace and Microsoft Office

Natural Resources, Sustainability & Environmental Science, Engineering, Math & Physical Sciences

How To Apply

Send resume, cover letter, and transcripts to tess.zahn@renewco2.com for last minute applications

CIRCLE Learning Group Inc

1412 Stelton Road Unit 5

STEAM Instructor/Coach, Hybrid, 2 open positions

Overview of Position

CIRCLE is an acronym for Collective Initiates Restore Community Life and Education. The vision and mission of CIRCLE Learning Group is to provide quality and equitable educational programs to low-income communities and families who are furthest from educational justice in New Jersey. The goal of the organization would be to remedy these disadvantages and address a crucial need of communities by establishing lifelong relationships with families to help close achievement gaps and increase educational success rates. CIRCLE Learning Group facilitates educational programs and events focused on the areas of literacy, STEAM (science, technology, engineering, arts, and math), mental and physical health, and job and life skills.

Be a part of our dynamic educational nonprofit as a STEAM Instructor/Coach Intern. This role provides a gratifying prospect to motivate and direct students in the domains of STEAM (Science, Technology, Engineering, the Arts, and Mathematics). You will assist in the

development and facilitation of stimulating activities that cultivate a passion for knowledge acquisition and investigation among young participants in your capacity as an instructional intern.

Responsibilities/Duties/Projects

STEAM Instructor/Coach duties can include the following:

- Evaluating and implementing the curriculum in an approach that relates to students' interests and abilities
- Adhering to lesson plans to cultivate an enjoyable yet challenging educational setting
- Monitor student conduct and using innovative strategies to sustain the enthusiasm and involvement of all participants
- Establishing a supportive learning environment for our learners
- Innovatively instructing cutting-edge STEAM principles
- Innovatively and creatively instruct STEAM concepts
- Motivate and inspire students by harnessing your enthusiasm STEAM and teaching
- Be flexible, punctual, and professional
- Use passion for instructing to inspire and serve as role model participants
- To be punctual, professional, and flexible
- Provide direct supervision and behavior management of learners
- Facilitate exciting, safe, and engaging STEAM and technology-related activities
- Ensure a positive, enjoyable, and secure environment

<u>Qualifications</u>

- Current enrollment in a college or university program, preferably in a STEAM-related field or Education
- An enthusiasm for the STEAM fields and a mission to motivate young students to pursue similar interests
- Proficient in interpersonal and communication dynamics, with the capacity to captivate and inspire program attendees.
- Prior experience working with children or in a camp environment (a plus, but not required)
- Advanced abilities in robotics, coding, drones, and/or digital arts (a plus, but not required)
- Adaptability, creativity, and patience in addressing the varied learning needs of individuals
- Access to a reliable internet connection and computer / mobile phone device (i.e.: iPhone, Android, etc.)
- Strong organization skills and attention to detail
- Flexibility to meet changing work needs and demands
- Ability to work collaboratively on a high-functioning team
- Openness to feedback and desire to grow professionally

Arts & Design, Communications, Computer Science, Information Systems & Technology, Education, Engineering, General Studies, Health Professions, Life Science, Manufacturing, Production, and Skilled Trades, Math & Physical Sciences, Natural Resources, Sustainability & Environmental Science, Technologies & Technicians, Open to all Majors, Agriculture, Food & Horticulture, Business, Entrepreneurship & Human Resources, Civics & Government, Humanities & Languages, Social Sciences

How To Apply

Send resume, cover letter, and transcripts to interns@circlesteamlab.org or apply through www.circlesteamlab.

Community Foodbank of New Jersey

6735 Black Horse Pike, Egg Harbor Township, NJ 08234

Distribution Specialist (Intern), In-person, 1 open position

Overview of Position

As a Distribution Specialist (Intern), you will be responsible for the coordination of the distribution of large donations of perishable and short-coded items to our network partners in a timely, fair and equitable manner. This position reports to our Warehouse Manager and is based in Egg Harbor, NJ.

Responsibilities/Duties/Projects

Distribution Specialist (Intern) duties can include the following:

- Duties include but not limited to reviewing purchase orders, creating item cards and pallet labels while working with network relations and food sourcing prioritizing freight.
- Direct volunteers sorting product, restocking the pantry, checking-in clients in Oasis and preparing produce list in coordination with Network Relations
- Process distribution of special or hard-to-move products due to large quantities and/or perishable nature, e. g., produce, dairy, juices and close-coded product.
- Communicate frequently with departments within CFBNJ (Network Relations, Food Sourcing, Operations and Transportation) regarding incoming product.
- Coordinate with mobile pantries, community distribution and sites to move perishable products as needed.
- Track distribution of special products as allocated to our network partners until received and then ensure data entry is completed in a timely manner.
- Create, distribute and post daily pick tickets ensuring orders are picked timely and accurately

- Collaborate with Inventory Manager and Receiving department on selection of product for community distributions.
- Ensure mobile pantry is equipped with proper products.
- Liaison between food sourcing and partners gleaning products from supermarkets and farms. Ensure best buy and sell by date are within acceptance. Partner with other departments for quick and timely responses.
- Ensure warehouse SOPs are followed and associates are operating in a safe, positive manner

Agriculture, Food & Horticulture, Business, Entrepreneurship & Human Resources, Civics & Government, General Studies, Life Science, Manufacturing, Production, and Skilled Trades, Natural Resources, Sustainability & Environmental Science, Social Sciences, Open to all Majors

How To Apply

Send resume, cover letter, and transcripts to hrdept@cfbnj.org

Covanta

445 South Street, Morristown, New Jersey

Environmental Compliance & Sustainability Intern, Hybrid, 3 open positions

Overview of Position

Our mission is to build a safer, cleaner, more prosperous world by ensuring no waste is ever wasted.

Covanta is a global leader in providing sustainable waste solutions. The company's modern facilities convert waste from municipalities and businesses into clean, renewable electricity. In addition, through a vast network of treatment and recycling facilities, Covanta specializes in waste to energy ("WTE"), a vital component of the modern waste stream that diverts waste from landfills and therefore avoids significant greenhouse gas emissions.

As a Covanta intern, you will work on projects that have a real impact on sustainability. Students with a genuine interest in developing a career in renewable energy, sustainability, and waste to energy technology are encouraged to apply!

Responsibilities/Duties/Projects

Environmental Compliance & Sustainability Intern duties can include the following:

- Build internal databases and reports to drive environmental performance
- Establish tasks in environmental management system
- Conduct policy research and support government and community relations teams

- Assist in analysis of U.S. national air toxic inventory
- Update GHG inventory for commercial and industrial business

Engineering, Natural Resources, Sustainability & Environmental Science

How To Apply

Apply through https://www.covanta.com/careers

Covanta

445 South Street, Morristown, New Jersey

Lean Transformation Intern, Hybrid, 4 open positions

Overview of Position

Our mission is to build a safer, cleaner, more prosperous world by ensuring no waste is ever wasted.

Covanta is a global leader in providing sustainable waste solutions. The company's modern facilities convert waste from municipalities and businesses into clean, renewable electricity. In addition, through a vast network of treatment and recycling facilities, Covanta specializes in waste to energy ("WTE"), a vital component of the modern waste stream that diverts waste from landfills and therefore avoids significant greenhouse gas emissions.

As a Covanta intern, you will work on projects that have a real impact on sustainability. Students with a genuine interest in developing a career in renewable energy, sustainability, and waste to energy technology are encouraged to apply!

Responsibilities/Duties/Projects

Lean Transformation Intern duties can include the following:

- Engage in problem-solving projects following a standardized problem-solving process (PSR) used at Covanta.
- Using a lean manufacturing process mapping technique (VSM), identify the optimum flow of materials and information required to bring a product to a customer.
- Support small teams of people focused on process improvement initiatives (Kaizen).
- Analyze raw data and provide results to help leaders draw conclusions about that information.
- Using Microsoft Power BI, create visual dashboards where reoccurring analysis is required.
- Assist leaders with return on investment (ROI) analysis to measure an investment's profitability.

• Develop and document Standardized Work for facility operations.

Desired Majors

Engineering, Natural Resources, Sustainability & Environmental Science

How To Apply

Apply through https://www.covanta.com/careers

Fundraising Well

152 Pine St, Jersey City, NJ 07304

Data & Influence Associate, Remote, 1 open position

Overview of Position

The Data & Influence Associate will play a significant role in supporting the data collection and analysis, and thought leadership offerings of Fundraising Well and its clients.

Responsibilities/Duties/Projects

Data & Influence Associate duties can include the following:

- Conduct a comprehensive comparative analysis of various survey tools and software
- Design and create engaging surveys to gather relevant data in alignment with organizational goals and objectives.
- Develop survey questions that are clear, unbiased, and capable of extracting meaningful insights from respondents.
- Implement survey distribution strategies across various platforms, ensuring maximum reach and participation from the target audience.
- Monitor and analyze survey responses, identifying trends, patterns, and outliers to derive actionable insights.
- Respond to participant inquiries and feedback, ensuring a positive and engaging experience for survey participants.
- Collaborate with Fundraising Well leadership to understand specific data requirements and tailor surveys accordingly.
- Collaborate with marketing team to promote surveys and engage with the audience effectively, and create reports summarizing survey findings..
- And more! (and there is flexibility to incorporate your areas of interest)

Desired Majors

Business, Entrepreneurship & Human Resources, Civics & Government, Communications, Computer Science, Information Systems & Technology, Engineering, General Studies, Humanities & Languages, Life Science, Math & Physical Sciences, Social Sciences, Technologies & Technicians, Natural Resources, Sustainability & Environmental Science

How To Apply

Send resume and cover letter to intern@fundraisingwell.com

Innovation, Design, and Entrepreneurship Academy (IDEA) at Rutgers-New Brunswick

Design Researcher, In-person, 30 open positions

Overview of Position

IDEA is seeking Rutgers undergraduates as Design Research Interns to contribute to communityengaged research and design projects with IDEA's New Brunswick non-profit community partners to support their work. Your work will contribute to meaningful human-centered design products, processes, and services. The responsibilities and skills learned during this internship contribute to a range of career opportunities including, but not limited to: business analytics, information technology and informatics, market research analyst, user research and design (UX), research assistant, communications specialist, etc.

Design Research Interns apply to a specific specialization:

Justice Health:

This is the first training program of its kind in the country. Through this specialization students participate in a summer shadowing program with healthcare providers in the NJ Correctional System and implement a health education project for inmates. The field of correctional medicine offers much value to undergraduate students interested in pursuing a career in the health professions.

Food Distribution Programs:

Work with organizations involved with community food distribution to develop media outreach and education campaigns that drives awareness, improves accessibility, and facilitates engagement with food resources within the community. This specialization is great for those interested in learning about designing and producing communication campaigns, user experience (UX) research and design, and mobilizing ideas into action.

Energy and Environmental Innovations:

Work with environmental organizations to develop outreach and education programs that translate scientific data into information community members, policymakers, environmental resource managers, and outdoor enthusiasts can all understand and appreciate. This specialization is great for those wanting first time programming, data collection, digital communication and/or instructional design experience.

Immigrant Services:

Work with organizations to communicate and amplify their mission of representing and advocating on behalf of immigrant communities, as well as strengthening the relationship between immigrants and the broader community. This specialization is great for those interested in learning about web design, producing digital media, or user experience (UX) research and design.

Emerging Technologies:

Work with startups and innovative organizations on market research and prototyping. This specialization is great for those interested in exploring new ideas, synthesizing research, learning about product design, and building things.

Responsibilities/Duties/Projects

Design Researcher duties can include the following:

- Work with the community partner to identify and prioritize research-led opportunities and solutions to improve services, product, and/or organizational processes
- Plan and conduct primary research, including interviews, field observations, or surveys in project specialization area
- Plan and conduct desk research, including journal articles, reports, and additional relevant documentation
- Conduct 2-3 field site visits each week to meet and work with IDEA New Brunswick community partners in specialization area
- Meet daily with project team
- Encourage others to share their ideas and nurture creativity
- Communicate research insights at all stages of the project using writing, visuals, and verbal communication. This means you are able to think strategically and incorporate community and organizational needs with technical requirements to address the needs of the community partner
- Bridge research to application through slide decks, narratives, videos, posters, or exhibits
- Participate in cohort and professional development activities

Desired Majors

Business, Entrepreneurship & Human Resources, Communications, Computer Science, Information Systems & Technology, Education, General Studies, Arts & Design, Health Professions, Natural Resources, Sustainability & Environmental Science, Social Sciences, Humanities & Languages, Open to all Majors

How To Apply

Apply through https://go.rutgers.edu/IDEAinternship

Integrated Chemistry Services, LLC

1 Whittendale Drive, Suite E, Moorestown, NJ 08057

Scientific R&D Intern, In-person, 1 open position

Overview of Position

Integrated Chemistry Services (ICS) is opening a 2024 Summer Scientific R&D Intern position. ICS is a CDMO (Contract Development and Manufacturing Organization) that specializes in dry chemistry assay development. We work with clients worldwide, across multiple industries, to develop testing devices that support their project goals and deliverables. With a unique ability to scale to manufacturing, our team can support clients from concept to commercialization. ICS is dedicated to creating solutions and making a meaningful impact in the world.

We are seeking a driven, excited, and reliable intern to become fully integrated with the ICS team in the Summer of 2024. The intern can expect day-to-day experiences that include scientific research, experimental design, experimental execution, data collection and analysis, contribution to client presentations and updates, and more. The intern will be expected to work alongside ICS staff in support of projects, and they may expect to interact with the following teams: Scientists, Project Manager, Quality Manager, and Partners.

The applicant must have the willingness to work in a team setting with a desire to learn and contribute. This applicant must have prior laboratory experience and an ability to work with the Microsoft suite of programs (Excel, PowerPoint, Outlook). The applicant must be currently enrolled in undergraduate or graduate studies, with an engineering or scientific major preferred.

Responsibilities/Duties/Projects

Scientific R&D Intern duties can include the following:

- General laboratory functions such as buffer preparation, reagent formulation, operation/maintenance of laboratory equipment, and record keeping.
- Involvement in process development for transfer to manufacturing.
- Draft Standard Operating Procedures (SOPs) and testing protocols.
- Contribute to the experimental design process in support of clients' project goals.
- Perform experiments in a lab-based setting to collect data.
- Data analysis and upload.
- Development and contribution to presentations for regular client updates.
- Research for methodology and technique for client assay approaches.
- Honor client confidentiality.

Desired Majors

Engineering, Life Science, Manufacturing, Production, and Skilled Trades, Math & Physical Sciences, Natural Resources, Sustainability & Environmental Science, Technologies & Technicians

How To Apply

Send resume to rjeronimus@integrated-chemistry.com

La Casa de Don Pedro

221 Broad Street, Newark, NJ 07104

ECED Summer internship 2024, Hybrid, 40 open positions

Overview of Position

The student interns will learn all aspects of the non profit organization, and all divisions, via a rotating schedule through each. Students will participate in all programmatic and community events affiliated with the organization work will be in a hybrid format, with both in-person and online learning experiences.

Responsibilities/Duties/Projects

ECED Summer internship 2024 duties can include the following:

- Attend orientation
- Participate in all program trainings
- Understand licensing requirements
- Learn curriculum development
- Maintain health and safety standards while housed at various centers
- Complete weekly and/or monthly reports
- Work collaboratively with fellow interns on long term summer projects
- Support daily nutrition program
- Sort and organize materials
- Complete daily tasks, as led by site coordinator or manager
- Complete end of summer project

Desired Majors

Agriculture, Food & Horticulture, Arts & Design, Business, Entrepreneurship & Human Resources, Civics & Government, Communications, Computer Science, Information Systems & Technology, Education, Engineering, General Studies, Health Professions, Humanities & Languages, Life Science, Manufacturing, Production, and Skilled Trades, Math & Physical Sciences, Natural Resources, Sustainability & Environmental Science, Social Sciences, Technologies & Technicians, Open to all Majors

How To Apply

Send resume, cover letter, and transcripts to mmorales@lacasanwk.org

New Jersey American Water

New Jersey American Water, 1 Water Street, Camden, NJ 08102

Engineering/Planning Intern, In-person, 1 open position

Overview of Position

This coop experience will introduce you to the exciting career opportunities in the water and wastewater field. The successful candidate will learn firsthand how water utilities support communities and provide resiliency and sustainability. The candidate will work with a team of engineers to develop water supply plans, asset management plans and support various types of engineering projects and programs for the company's water and wastewater systems. Work assignments will typically focus on evaluating water and energy usage trends, source water quality, water and wastewater treatment plant performance, and pipeline and pump station capacities and condition.

Responsibilities/Duties/Projects

Engineering/Planning Intern duties can include the following:

Typical duties are diverse and designed around the education and experience level of the student.

- Assignments may include: Performing analyses utilizing software such as Microsoft Office, WaterCad / WaterGEMS hydraulic models, ESRI GIS, SAP asset management system software and various EPA resiliency programs; Assisting in the preparation and review of technical reports
- Performing literature reviews; and preparing presentation materials and map displays using Powerpoint and GIS.
- Depending on the candidate's education and experience level, duties may also include developing Sharepoint pages; assisting in the review of engineering standards and templates; developing materials for training programs; and assisting in the team's management and delivery of the company's construction program.
- The student may accompany engineers on occasional field assignments and facility inspections as needed.

Desired Majors

Engineering, Natural Resources, Sustainability & Environmental Science

How To Apply

Send resume to amwater.com

Students 2 Science

66 Deforest Ave, East Hanover, NJ 07936

Virtual Lab (V-Lab) Program Internship, In-person, 1 open position

Overview of Position

The S2S project-based internship program provides a mentored internship opportunity and career readiness experience to college students interested in learning about STEM (Science, Technology, Engineering and Mathematics). During the summer internship program, interns will gain meaningful hands-on work experience and develop a toolkit of skills foundational for the professional world. Interns will be assigned to work with a designated member of the S2S team and regularly interact with industry experts to evaluate and revise current content, investigate industry trends to develop new curriculum, and assist in the delivery of the summer program.

Internship duration: Monday, May 20, 2024, through Wednesday, August 7, 2024.

Payment will be \$20.00 per hour.

Hours per week are agreed upon by the intern and designated internship supervisor.

Interns must be committed to working 30 hours per week for the duration of their internship with Students 2 Science.

Responsibilities/Duties/Projects

Virtual Lab (V-Lab) Program Internship duties can include the following:

- Conduct research, complete experimentation, and develop a presentation that summarizes the project's lifecycle.
- Present the findings to their internship class, the S2S team, and industry experts for feedback and evaluation.
- Evaluate current content and delivery practices to ensure that they are relevant, up to date with standards, and determine upgrades for use in future years.
- Work individually and with a S2S and intern team to develop stimulating content to be used for future V-Lab programming.
- Immerse yourself in the daily operations of program development and implementation with the support of your internship team and leadership.
- Attend all weekly corporate site visits, career advancement workshops and/or discussions as part of the Career Advancement Program.

Desired Majors

Computer Science, Information Systems & Technology, Education, Engineering, Life Science, Math & Physical Sciences, Natural Resources, Sustainability & Environmental Science, Technologies & Technicians

How To Apply

Send resume and cover letter to Olivia Felder, Director Career Advancement Program at Oliviafelder@students2science.org

Students 2 Science

66 Deforest Ave, East Hanover, NJ 07936

Marketing and Communications Internship, In-person, 1 open position

Overview of Position

The S2S project-based internship program provides a mentored internship opportunity and career readiness experience to college students interested in learning about STEM (Science, Technology, Engineering and Mathematics). During the summer internship program, interns will gain meaningful hands-on work experience and develop a toolkit of skills foundational for the professional world. Interns will be assigned to work with a designated member of the S2S team and regularly interact with industry experts to evaluate and revise current content, investigate industry trends to develop new curriculum, and assist in the delivery of the summer program.

Internship duration: Monday, May 20, 2024, through Wednesday, August 7, 2024.

Payment will be \$20.00 per hour.

Hours per week are agreed upon by the intern and designated internship supervisor.

Interns must be committed to working 30 hours per week for the duration of their internship with Students 2 Science.

Responsibilities/Duties/Projects

Marketing and Communications Internship duties can include the following:

- Present the findings to their internship class, the S2S team, and industry experts for feedback and evaluation.
- Evaluate current content and delivery practices to ensure that they are relevant, up to date with standards, and determine upgrades for use in future years.
- Investigate current trends in non-profit marketing and public relations.
- Assist the Development team on developing future social media and organization marketing collateral.
- Develop and design marketing materials for specific program areas.
- Collaborate with the S2S team to define potential campaigns and fundraising strategies based on the current needs of the organization.
- Immerse yourself in the daily operations of program development and implementation with the support of your internship team and leadership.

Communications, Computer Science, Information Systems & Technology, Education, Engineering, Life Science, Math & Physical Sciences, Technologies & Technicians, Natural Resources, Sustainability & Environmental Science

How To Apply

Send resume and cover letter to Olivia Felder, Director Career Advancement Program at oliviafelder@students2science.org

Tristate Engineering & Surveying, PC

27 W. Church St, Blackwood, NJ 08012

Civil Engineering Intern, In-person, 2 open positions

Overview of Position

We are adding a Civil Engineering Intern to our team to support TSE over the summer of 2024. Attention to detail and being a fast learner are keys to success for this dynamic role. You will be drafting land surveying and land development plan sets, assist in the preparation of planning and design documents, and get in the field for surveys of site projects in the residential, commercial, and industrial sectors.

Responsibilities/Duties/Projects

Civil Engineering Intern duties can include the following:

- Process field point files for draft preparation
- Plan and prepare layouts and detailed design drawings from engineering notes, sketches, and other drawings, ensuring they meet TSE and industry standards and codes
- Draft land surveys, land development plans, subdivision plans, concept plans and construction documents
- Research ordinance requirements, regulations, and project specific data related to design
- Work closely with Project Managers, Project Engineers, Designers, and Drafters to ensure plan coordination is maintained
- Organize and maintain revisions of project drawings, plot files and project related information
- Prepare plans for transmittal (printing, sealing, folding & mailing)
- Other projects as needed

Desired Majors

Engineering, Natural Resources, Sustainability & Environmental Science, Technologies & Technicians

How To Apply

Send resume, cover letter, and transcripts to info@tristatecivil.com