Sustainable Water is seeking candidates for Building Construction and Construction Engineering Internships. Candidates should be energetic and innovative with the desire to participate in iconic sustainable infrastructure development spanning across industries such as automotive, higher education, and food & beverage.

**APPLICABLE FIELDS/DISCIPLINES:** Building Construction, Construction Engineering, Construction Project Management, Construction Cost Estimating

**RESPONSIBILITIES:**
- **Pre-Construction Support:**
  - Bid / Proposal / Specification Development
  - Construction Cost Estimating
  - Design Review & Value Engineering
  - Project planning, scheduling & coordination
  - Assist in the development of project-specific design-build teams
- **Construction Project Management:**
  - Coordination with design team, general contractors and subcontractors
  - Maintain & track project schedule, budget & pay applications
  - Monitor field construction activities
  - Help troubleshoot engineering, design & construction challenges as they arise

**REQUIRED QUALIFICATIONS:**
- Pursuing Bachelor’s Degree Civil Engineering, Construction Management or Building Construction
- Proficiency with Project Management / Scheduling Tools (MS Project, Primavera)
- Proficiency with Construction Management Tools (ProCore, BuildingBloq, Penta)
- Completed relevant courses in construction cost estimating
- Strong problem-solving skills
- Self-driven & ability to prioritize
- Work in a team environment
- Willingness to grow and learn
- Willingness to travel

The selected candidates will actively participate in our existing project backlog. Please refer to the following pages for our case study on The WaterHub at Emory University highlighting a typical Sustainable Water project along with the awards page which emphasizes the high visibility of the award-winning venture.

If you like a challenging work environment, and you are interested in this position, please send your resume and cover letter to careers@sustainablewater.com.
In the last decade, Atlanta has witnessed numerous water-related stresses, including severe drought, EPA mandates to resolve critical infrastructure failures and an extended political dispute over water rights in the so-called “Tri-State Water Wars.” As a result of these challenges, Emory University set out to explore ways to minimize its impact on community water resources and the environment with a more strategic and impactful water management solution: campus-wide water reclamation and reuse.

With an extensive district energy system supplying steam heat and chilled water to campus, the University has significant process water demands that equate to nearly 40% of campus water use. A majority (85%) of this water is used by the steam plant and five campus chiller plants. These utility plants offered an opportunity to displace a significant portion of the campus potable water footprint with a reliable and sustainable source of water.

Sustainable Water designed the WaterHub at Emory University to integrate into the existing campus framework using two small parcels near Chappell Park Field. Up to 400,000 gallons of wastewater is mined directly out of the campus sewer system daily. Water is cleaned to Georgia Reclaimed Water Standards through an energy efficient, eco-engineered treatment process supported by solar (PV) energy production. The system has 50,000 gallons of clean water storage capacity, providing N+1 redundancy for campus district energy systems. Recycled water is distributed to multiple utility plants and select dormitories for toilet flushing via a 4,400 linear foot “purple pipe” distribution system.

The WaterHub reduces Emory’s draw of potable water by up to 146 million gallons annually. Since its commissioning in May 2015, the WaterHub has processed over 220 million gallons of water. In addition to its function as a water reclamation system, the WaterHub is designed to promote research and community outreach, enhancing the concept of the campus as a living, learning laboratory. With built-in lab space and easy access ports for water quality testing, the facility enables research in a variety of topics. The lower site also includes a demonstration reciprocating wetland system (ReCip®) as a showcase to visitors interested in other sustainable treatment technologies.

— EILEEN O’NEILL, EXECUTIVE DIRECTOR OF THE WATER ENVIRONMENT FEDERATION

THE WATERHUB IS A FANTASTIC MODEL FOR INNOVATION IN WATER AND THE BENEFITS OF RESOURCE RECOVERY AND BEST PRACTICES TO COMMUNITIES OF ALL SIZES.
The WaterHub at Emory is an adaptive, ecological, campus-wide water recycling system designed to treat domestic sanitary sewage for beneficial reuse. Wastewater is mined from a 18" sewer line near the lower site and then pumped to the upper site where it enters a rotating drum screen before entering the moving bed bio-reactor (MBBR) system. The process design combines submerged fixed-film hydroponic reactors with a MBBR as an initial treatment step. After primary treatment, water passes through a small clarifier, a disk filter, and a dual-stage disinfection system consisting of ultraviolet (UV) light and an oxidizing agent (chlorine).

The hydroponic reactors utilize plants and their root systems to mimic and maximize natural treatment efficiencies associated with oxygen diffusion and habitat creation. Below the root zone is an artificial media, called BioWeb®, that extends the submerged fixed-film surface area for higher levels of microbial incubation. The system is designed to provide a high hydraulic throughput with a small physical footprint, and low energy demands. Along with outdoor hydroponic reactors, the lower site also boasts a small 5,000 GPD reciprocating wetland system, which is used by the University for demonstrative and research purposes.
2018 CAMPUS SUSTAINABILITY ACHIEVEMENT AWARD: THE ASSOCIATION FOR ADVANCEMENT IN HIGHER EDUCATION (AASHE)
The annual AASHE Sustainability Awards recognize sustainability achievements, research advancements, student leadership and outstanding leaders at institutions of higher education. By raising the visibility of high-impact sustainability projects and pioneering research, the awards program helps to disseminate innovations and inspire continued progress toward sustainability. The WaterHub at Emory University received the award for "Engaging Campus & Community in Water Reclamation."

2018 INNOVATION AWARD: INTERNATIONAL DISTRICT ENERGY ASSOCIATION
The International District Energy Association works actively to foster the success of its members as leaders in providing reliable, economical, efficient, and environmentally sound district heating, district cooling, and combined heat and power. The WaterHub at Emory University received the 2018 IDEA Innovation Award for its waste water reclamation and reuse system in collaboration with IDEA member Sustainable Water.

2016 PROJECT EXCELLENCE AWARD: WATER ENVIRONMENT FEDERATION
The Water Environment Federation, a not-for-profit technical and educational organization representing water quality professionals around the world, presented the award to the WaterHub at Emory University as a project that contributes to the sustainability of water resources and makes a profound impact on the future of the world’s water through involvement with water professionals and education.

2016 OUTSTANDING ACHIEVEMENT GAME CHANGER AWARD; ATLANTA BETTER BUILDINGS CHALLENGE
Atlanta Better Buildings Challenge, a nation-leading public/private initiative that has been praised as a model for the rest of the country by the director of the U.S. Dept. of Energy’s Better Buildings Challenge, presented the award to the WaterHub at Emory University, whose remarkable efforts produced the highest levels of energy and water savings in 2015.

2016 INNOVATION AWARD; NATIONAL ASSOCIATION OF COLLEGE AND UNIVERSITY BUSINESS OFFICERS
The WaterHub at Emory University won the 2016 Innovation Award presented by the National Association of College and University Business Officers, an organization that enables educational institutions to share, elevate, and transform the learning environment. The award seeks to honor the achievement of higher education institutions of each constituent type (community colleges, comprehensive and doctoral institutions, research universities and small institutions) in the areas of process improvement and resource enhancement.

2016 EFFECTIVE & INNOVATIVE PRACTICES AWARD; THE ASSOCIATION OF PHYSICAL PLANT ADMINISTRATORS (APPA)
APPA, an organization that enables educational institutions to share, elevate, and transform the learning environment, presented the award to the WaterHub at Emory University as a project that enhances service delivery, lowers costs, increases productivity, improves customer service, generates revenue, or otherwise benefits the educational institution.

2016 NATIONAL ENGINEERING EXCELLENCE GRAND AWARD, AMERICAN COUNCIL OF ENGINEERING COMPANIES
American Council of Engineering, a national organization dedicated to strengthen the business environment through government advocacy, political action and business education, presented the award as the highest honor in the “Water Resources” category to the WaterHub at Emory University as a project that demonstrates an exceptional degree of innovation, complexity, achievement and value.

2016 SCUP EXCELLENCE IN LANDSCAPE ARCHITECTURE-GENERAL HONORABLE MENTION AWARD RECIPIENT; SOCIETY FOR COLLEGE AND UNIVERSITY PLANNING
The Society for College and University Planning, an organization of higher education leaders involved in the integration of planning on campuses, presented the award to the WaterHub at Emory University as a project that shows excellence in planning and design of campus grounds for higher education.
The US Water Alliance, an organization that works to advance policies and programs that build a sustainable water future for all, presented the award to the WaterHub at Emory University as a project with outstanding achievement in the advancement of sustainable solutions to our nation's water challenges.

In the "Infrastructure Private Sector" category, the Construction Management Association of America (CMAA) South Atlantic Chapter, an organization dedicated exclusively to the interests of professional Construction and Program Management, awarded the WaterHub at Emory University as a successful project with a constructed value less than $50 million and recognized the project for outstanding achievement in the practice of construction management.

Southface, an organization that works with the construction and development industry, government agencies and communities to promote sustainable homes, workplaces and communities, presented the inaugural award to the WaterHub at Emory University as a project that defines excellence with respect to the Southface Vision Statement: a regenerative economy, responsible resources use, social equity and a healthy built environment for all.

As the highest honor in the "Water Resources" category, the American Council of Engineering Companies of North Carolina, an organization engaged in a wide range of engineering projects that propel the economy and enhance and safeguard our state's quality of life, presented the award to the WaterHub at Emory University for its engineering excellence based on unique and innovative applications, future value, perception by the public, complexity, and fulfillment of the client's requirements.

Urban Land Institute Virginia, an organization dedicated to provide leadership in the responsible use of land and in creating and sustaining thriving communities worldwide, presented the award to the WaterHub at Emory University for its advanced land use and design practices that respect the uniqueness of both the built and natural environments.

Presented by the Georgia Safety, Health and Environmental Conference and the Georgia Chapter of the American Society of Safety Engineers, the award recognized the WaterHub at Emory University for its exemplary environmental, health and safety improvements in the Georgia region. These organizations are dedicated to supplying industry professionals with a quality, comprehensive and convenient way to develop and improve their technical, managerial, regulatory and administrative skills necessary for maintaining and sustaining a safe, healthy and environmentally sound workplace.

The Metro Atlanta Chamber, an organization devoted to help grow the economy or tackle big issues like transportation, water and public education, praised the WaterHub at Emory University for its ability to conserve Atlanta's natural resources and develop technology to enhance the environment.

Presented by the WaterReuse Association (WRA) – the water industry's leading research institution for the advancement of water reclamation and reuse – the award recognized the WaterHub at Emory University as a unique, innovative project that is practical and implementable to enhance the sustainability and efficiency of reclaimed water and acknowledges the WaterHub for its contributions to the community and how it continues to advance the water reuse industry.