

Company: LOTT Clean Water Alliance

LOTT provides wastewater management services for Lacey, Olympia, and Tumwater in Thurston County. The LOTT treatment plant in Olympia has advanced secondary treatment and produces both Class A reclaimed water and Class B biosolids.

<https://www.lottcleanwater.org/>

Location: Olympia, WA

Project Description:

You'll help LOTT evaluate Scope 3 materials used at the facility with two main goals: reduce greenhouse gas (GHG) emissions and reduce LOTT's environmental footprint, as measured in CO₂ equivalence (CO₂e). Internship tasks include:

- Creating a framework to identify and track the effect of Scope 3 products.
- Evaluating the different Scope 3 materials used.
- Determining the CO₂e of Scope 3 materials used.
- Identifying and evaluating alternatives to Scope 3 materials used, with a focus on safer alternatives and lower CO₂e.
- Identifying materials that are persistent, bioaccumulative, and toxic, like PFAS, to facilitate elimination.
- Developing a method and tools to track reductions of GHG emissions, CO₂e, and toxicity when materials are eliminated or replaced.
- Evaluating potential reductions in toxicity when materials are eliminated or replaced.
- Laying groundwork for an Environmentally Preferable Purchasing policy.

Preferred majors:

- Economics/Business
- Engineering
- Environmental Health
- Environmental Science/Environmental Studies
- Environmental Sustainability
- Life Sciences
- Physical Sciences

Desired Skills:

- Ability to work independently
- Ability to gather information, synthesize data, draw inferences, and recommend actions
- Proficiency in Microsoft suite of software (Word, Excel and PowerPoint)
- Strong written and verbal communication skills
- Solid work ethic with a desire for accuracy

Additional requirements:

- U.S. citizenship is not required.

Company: Taylor Farms Northwest

Taylor Farms processes and packages a variety of ingredients to create fresh salad blends and kits, vegetable meal blends and kits, snacks, and vegetable trays. Taylor Farms partners with family farmers across the country to create salads and other healthy, fresh foods.

<https://www.taylorfarms.com/>

Location: Kent, WA

Project Description:

Water usage is integral to every aspect of Taylor Farms' operations, including produce washing, cooking, dish pit operations, and general sanitation. You'll help Taylor Farms find and implement opportunities to reduce wastewater and minimize the demand for city water. You'll also identify ways to reduce materials sent to the landfill. Some tasks associated with this project include:

- Reviewing current processes and equipment to find potential reductions in overall water usage.
- Identifying and evaluating possible ways of in-house water recovery.
- Identifying and evaluating opportunities to reduce generated solid waste.
- Diverting solid waste from landfills to animal feedstock or composting.
- Tracking water and chemical usage and tonnage sent to landfills.

Preferred majors:

- Engineering
- Environmental Health
- Environmental Science or Studies

Desired Skills:

- Knowledge of CAD or similar software
- Ability to work independently
- Ability to gather information, synthesize data, draw inferences, and recommend actions
- Ability to execute project management skills
- Strong general computing skills
- Strong written and verbal communication skills

Additional requirements:

- U.S. citizenship is not required.

Company: Toray Composite Materials America, Inc.

Toray Composite Materials America (CMA) is a leading manufacturer of carbon fiber composite materials used in the aerospace, rocket, industrial, and sporting goods industries. CMA is ISO 14001:2015 Certified.

<https://www.toraycma.com/>

Location: Tacoma, WA

Project Description:

You'll help Toray optimize their solvent recovery system and evaluate the solvents used in equipment cleaning. Internship tasks include:

- Evaluating distillation process to optimize solvent recovery.
- Researching distillation equipment options.
- Determining if analytical processes can use recycled NMP and reduce virgin solvent usage.
- Researching and evaluating alternative solvents to increase employee safety and reduce VOC emissions.

Preferred majors:

- Engineering
- Environmental Science or Studies
- Physical Sciences

Desired Skills:

- Task oriented and analytical
- Ability to work independently
- Ability to analyze and problem solve
- Ability to gather information, synthesize data, draw inferences, and recommend actions
- Ability to execute project management skills
- Task oriented and analytical
- Strong general computing skills
- Strong written and verbal communication skills

Additional requirements:

- U.S. citizenship is required.

Company: Valence Surface Technologies

Valence Surface Technologies processes precision parts for the aerospace industry. Valence Seattle's 32,000-square-foot facility is located in the heart of Washington's aerospace hub and offers full-service non-destruct penetrant and magnetic particle inspection, shot peen, aluminum and hard metal finishing, and paint services. Valence Seattle works with leading aerospace manufacturers and defense contractors.

<https://www.valencesurfacetech.com/>

Location: Seattle, WA

Project Description:

You'll analyze the metal finishing line to identify hazardous wastewater reduction opportunities. Some tasks associated with this project include:

- 1) Examining the rinse process to optimize water flow rate and chemical additions.
- 2) Optimizing wastewater treatment to efficiently precipitate heavy metals, including and/or finding best practices for pH neutralization and batch treatment for heavy metals.
- 3) Performing analytics using atomic absorption, jar testing, and other processes to identify the most optimal flow and chemical addition rates.
- 4) Assisting with the Operations Manual revision to reflect changes to the processes in the wastewater permit.

Preferred majors:

- Environmental Engineering
- Environmental Science or Studies
- Physical Sciences

Desired Skills:

- Ability to work independently
- Ability to gather information, synthesize data, draw inferences, and recommend actions
- Ability to execute project management skills
- Strong Microsoft Office computing skills
- Strong written and verbal communication skills
- Familiarity with environmental regulations, especially the Clean Water Act

Additional requirements:

- U.S. citizenship is required.