

Strengthening Minnesota businesses by maximizing efficiency and lowering costs through energy, water and waste reduction

INTERNSHIP: Lead a project focused reducing water usage in manufacturing processes (Summer 2017)

COMPANY: Aqseptence Group Inc., New Brighton, MN

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior engineering or physical science college student to lead a project focused on water conservation at Aqseptence Group Inc. in New Brighton, MN. Aqseptence Group Inc is an innovator in metal filter and screen fabrications. The intern will work to research and quantify water usage, cooling water quality, and methods for improving recycled water quality. The intern will study welding systems that use and generate water and energy, as well as water treatment practices on-site. The intern will consult with staff and suppliers to assess, recommend and begin implementing potential procedure and equipment changes that will lower water use and production costs.

JOB DUTIES:

As part of this project, you will be asked to complete the following tasks:

1. Measure and quantify water use in the metal filter and screen manufacturing process.
2. Research and identify ways to reduce water usage through reduction at the source.
3. Measure and quantify welding cooling water quality, and research and identify ways to remove contaminants and recycle cooling water.
4. Develop economic and feasibility justifications and implementation plans for water use optimization for the company and present them for approval.
5. As appropriate, initiate approved changes and system upgrades and estimate the performance of upgraded systems.
6. Summarize findings in a detailed report, including recommended procedures and system configuration along with an economic analysis and justification of installation(s).
7. Present findings to the company and at MnTAP-hosted public presentation event.

As an intern, you will work at the company and report back to MnTAP. The position is full time, 40 hours per week, for three months to start after the conclusion of spring semester or quarter. Pay is \$13/hour, with a lump sum stipend of \$1,000 upon completion of the project deliverables: a final report and presentations. Cumulatively, this equates to \$15.00/hour when averaged over the project. Candidates must pass a background check and drug test.

QUALIFICATIONS:

- Cumulative GPA of at least 3.0
- Good oral & written communication skills
- A technical academic background
- Troubleshooting skills
- Self-motivated
- Excel and other software skills
- Appropriate majors: *Engineering, environmental or physical sciences and others as applicable*

TO APPLY:

Apply online at:

www.mntap.umn.edu/intern/student_apply.htm

Remember to submit your application form, cover letter, resume, and unofficial transcript.

Cover letters can be addressed to:

Nathan Landwehr, Intern Program Administrator
 200 Oak Street SE, Suite 350-1
 Minneapolis, MN 55455 • landwehr@umn.edu

MNTAP IS THE HIRING BODY: DO NOT CONTACT THE COMPANY