

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

**Internship:** Lead a project focused on water conservation, chemical usage, and energy efficiency.

**Company:** AaCron Inc. - Plymouth, MN

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on water conservation, chemical usage, and energy efficiency with AaCron Inc. The intern will work with MnTAP and AaCron staff to reduce water use on the anodizing lines. This will likely also result in a decrease in chemical usage. Additionally, the student will investigate energy optimization for dryers, heaters, and an air compressor. The intern will quantify these opportunities and develop suggestions to decrease usage as well as outline plans for implementation.

### JOB DUTIES:

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

1. Identify and quantify main sources of water use within the facility.
2. Develop solutions to reduce water use, with a focus on anodizing lines and non-contact cooling water.
3. Evaluate uses of natural gas including dryers and heaters, and identify savings opportunities.
4. Investigate efficiency of compressed air system.
5. As time allows, investigate other opportunities for pollution prevention.
6. Estimate water, chemical, and energy reduction potential from implementation of provided recommendations, then prioritize suggested changes using simple payback methods for financial justification.
7. As appropriate, support implementation of approved process changes or outline plans for future implementation.
8. Summarize findings in a detailed report, including recommended procedures and vendor proposals along with an economic analysis and justification of changes.
9. Present findings to the company and at MnTAP-hosted public presentation events.

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 \$19/hour, with a lump sum stipend of \$1,500 upon completion of the project deliverables: a final report and presentations. Cumulatively, this equates to \$22.00/hour when averaged over the project. Candidates must pass a background check.

### QUALIFICATIONS:

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

### TO APPLY:

Apply online at:

[www.mntap.umn.edu/interns/student/apply/](http://www.mntap.umn.edu/interns/student/apply/)

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

Applications can be addressed to:

Matt Domski, Intern Program Manager

200 Oak Street SE, Suite 350-1

Minneapolis, MN 55455 • [mdomski@umn.edu](mailto:mdomski@umn.edu)

**MNTAP IS THE HIRING BODY: DO NOT CONTACT THE COMPANY**