

Internship: Lead a project focused on chemical reduction and water conservation.

Company: Co-operative Plating – St. Paul, MN

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on water conservation and reducing the use of hazardous chemicals at Co-operative Plating. The intern will work with MnTAP and Co-operative Plating staff to install and implement a new cleaning process. The student will also work to understand and optimize water use in the plating process. The intern will quantify these opportunities and develop suggestions to reduce water and chemical use, as well as outline plans for implementation.

JOB DUTIES:

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

1. Estimate the savings opportunity for reducing drag-out between dip tanks.
2. Evaluate reverse osmosis (RO) and softening systems, and make recommendations to reduce water use
3. Establish process parameters and author standard procedures for the effective cleaning of metal parts.
4. Investigate options for masking and masking removal on metal parts.
5. As time allows, investigate opportunities for water, chemical, or energy reduction in other plant processes.
6. Estimate waste, energy, and water reduction potential from implementation of provided recommendations, then prioritize suggested changes using simple payback methods for financial justification.
7. As appropriate, initiate implementation of approved process changes or develop 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 \$18/hour, with a lump sum stipend of \$1,000 upon completion of the project deliverables: a final report and presentations. Cumulatively, this equates to \$20.00/hour when averaged over the project. Candidates must pass a background check.

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/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

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MNTAP IS THE HIRING BODY: DO NOT CONTACT THE COMPANY