

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

**INTERNSHIP:** Lead a project focused on identifying best practices and source reduction opportunities for industrial chloride use to minimize discharge to wastewater treatment facilities. (Summer 2021).

## **COMPANY/ORGANIZATION:** Minnesota Technical Assistance Program

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior level college student to lead a project focused on identifying best practices and source reduction opportunities for industrial chloride use. The project will involve identifying best practices and opportunities to minimize chloride discharges from industrial water softening operations gathered through informational interviews with vendors and site visits to observe practices at facilities. The ultimate goal of the project is to create general recommendations to help businesses reduce industrial chloride discharge from water softening operations to local wastewater treatment facilities and ultimately Minnesota lakes and streams.

The intern will report to MnTAP project staff and partners at the Minnesota Pollution Control Agency.

## **JOB DUTIES:**

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

1. Review and summarize literature sources for industrial chloride reduction opportunities, specifically information related to water softening process optimization.
2. Compile examples of chloride discharge reductions from past MnTAP projects as examples.
3. Conduct at least three (3) informational interviews with water softening vendors to identify best practices.
4. Participate in up to three (3) site visits at facilities with water softening to identify typical operating conditions.
5. Make recommendations for improving chloride discharge for site visit facilities as appropriate.
6. Define a set of best management practices (BMPs) for industrial water softening to reduce chloride effluent.
7. Manage project tasks, activities, and project documentation effectively.
8. Work professionally and collaboratively with MnTAP staff and partners
9. Develop summary reports and outreach materials to share findings with project stakeholders.
10. Compile findings in a detailed final report documenting all aspect of the project and identified industrial chloride source reduction opportunities.
11. Present project findings to project stakeholders and at MnTAP hosted public presentation events.

The position is full time, 40 hours per week, for three months to start after the conclusion of spring semester or quarter. Pay is \$15/hour, with a lump sum stipend of \$1,000 upon completion of the project deliverables: a final report and presentations. Cumulatively, this equates to \$17.00/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, computer science, environmental or physical sciences and others as applicable*

## **TO APPLY:**

Apply online at:

[www.mntap.umn.edu/intern/student\\_apply.htm](http://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:

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**