

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

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

Company: Twin City Tanning, South 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 wastewater loading reduction with Twin City Tanning. The intern will work with MnTAP and Twin City Tanning staff to reduce water usage and wastewater loading associated with the leather tanning process. The intern will quantify these opportunities and develop suggestions and implementation plans to reduce water use and wastewater loading.

JOB DUTIES:

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

1. Develop a water map to quantify water use and composition throughout the facility.
2. Identify and quantify main sources of wastewater loading within the facility.
3. Investigate metering options to improve accuracy and measure impact of changes.
4. Develop solutions to reduce wastewater loading, including cleaning procedures, training, tank rinses and reuse opportunities.
5. Develop solutions to reduce wastewater loading, focusing on fats, oils & grease (FOG) and cleaning process best practices.
6. Make recommendations for specific improvements based on research, testing, and calculation that will result in water conservation and wastewater loading reduction.
7. Estimate waste, energy, and water reduction potential from implementation of provided recommendations, then prioritize suggested changes using simple payback methods for financial justification.
8. As appropriate, initiate implementation of approved process changes or develop plans for future implementation.
9. Summarize findings in a detailed report, including recommended procedures and vendor proposals along with an economic analysis and justification of changes.
10. 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 \$16/hour, with a lump sum stipend of \$1,000 upon completion of the project deliverables: a final report and presentations. Cumulatively, this equates to \$18.00/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/intern/student_apply.htm

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