

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

Internship: Lead a project focused on water and wastewater conservation at a local powder coating manufacturer.

Company: JIT Powder Coating, Farmington, 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 with JIT Powdercoating in Farmington, MN. The intern will work with MnTAP and JIT staff to reduce water consumption on the wash line and improve wash chemistry to reduce chemical use, and phosphorus in the wastewater. The intern will quantify these opportunities and develop suggestions to increase efficiency, 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 water uses throughout the facility.
2. Analyze water used for cleaning/rinsing. Determine where water use can be minimized or where water can be reused.
3. Research cleaning chemistries, and chemistry delivery methods.
4. Make recommendations for specific improvements based on research and testing that will result in water or chemical use reduction, reuse, treatment, or recycling opportunities. Consider energy savings that result from changes, as well.
5. Estimate waste and energy reduction potential from implementation of provided recommendations, then prioritize suggested changes using simple payback methods for financial justification.
6. As appropriate, initiate implementation of approved process changes or develop plans for future implementation.
7. Summarize findings in a detailed report, including recommended procedures and vendor proposals along with an economic analysis and justification of changes.
8. 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 \$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, 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