

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

Internship: Lead a project focused on metal waste reduction, energy efficiency, and continuous process improvement.

Company: Silgan Containers - Savage, MN

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on metal waste reduction and energy efficiency with Silgan Containers. The intern will work with MnTAP and Silgan Containers staff to reduce metal waste associated with paint production processes. The student will also explore energy opportunities associated with the production process. The intern will quantify these opportunities and develop suggestions to reduce waste and conserve energy 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 the main sources of metal waste generation in facility processes, with a particular focus on the sheet coating/paint department.
2. Evaluate energy use in natural gas ovens and associated drying processes.
3. Explore additional opportunities related to energy efficiency in facility manufacturing processes and conveyances.
4. Make recommendations for specific improvements based on research, testing, and calculations that will result in metal waste reduction and increased energy efficiency.
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, support implementation of approved process changes or outline 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 \$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
- 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/

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