

Internship: Lead a project focused on water conservation, wastewater loading reduction, and energy efficiency at a food manufacturing facility.

Company: Michael Foods – Chaska, MN

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on water conservation, wastewater loading reduction, and energy efficiency with Michael Foods. The intern will work with MnTAP and Michael Foods staff to reduce water use and wastewater loading associated with the food processing lines. As time and resources permit, the student will also explore ways to minimize the waste energy associated with process-generated steam and food processing. The intern will quantify these opportunities and develop suggestions to reduce water, 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. Map the flow and quantity of water through the facility.
2. Identify and quantify main water users and locations of potential loss within the facility.
3. Develop solutions to reduce water use, with a focus on manufacturing and cleaning best practices.
4. Identify and quantify opportunities for minimizing, diverting, or repurposing edible waste.
5. Evaluate opportunities for energy reduction associated with steam capture and/or manufacturing processes.
6. Make recommendations for specific improvements based on research, testing, and calculation that will result in water conservation, waste minimization/diversion, wastewater loading reduction, and energy efficiency.
7. Estimate water, waste, and energy reduction potential from implementation of provided recommendations, then prioritize suggested changes using simple payback methods for financial justification.
8. As appropriate, support implementation of approved process changes or outline 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 \$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
- A technical academic background
- 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