

Internship: Lead a project focused on water conservation at a local food manufacturing facility.

Company: Kemps – Farmington, MN

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on water conservation with Kemps in Farmington, MN. The intern will work with MnTAP and Kemps staff to develop a water balance for the facility. This water balance will help prioritize facility processes with opportunities for water conservation or reuse. 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 and leaks throughout the facility.
2. Analyze water used for multiple production, maintenance, and sanitization (clean-in-place) functions. Determine where water use can be minimized or where water can be reused.
3. Research methods to optimize wastewater treatment systems that are fed by various on-site processes.
4. As time allows, investigate water efficiency opportunities for building and process heating and cooling.
5. Make recommendations for specific improvements based on research and testing that will result in water use reduction, reuse, treatment, or recycling opportunities. Consider energy savings that result from changes, as well.
6. Estimate water reduction and/or reuse potential from implementation of provided recommendations, then prioritize suggested changes using simple payback methods for financial justification.
7. As appropriate, initiate implementation of approved process changes or develop plans for future implementation.
8. Summarize findings in a detailed report, including recommended procedures and vendor proposals along with an economic analysis and justification of changes.
9. 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, food/agricultural science, 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