

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

Company: Rochester Meats, Rochester, MN

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on wastewater loading reduction and energy efficiency with Rochester Meats. The intern will work with MnTAP and Rochester Meats staff to reduce wastewater loading associated with the meat processing production lines. The student will also complete a basic lighting audit and explore the waste energy associated with process generated heat. 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 main sources of wastewater loading to drain within the facility.
2. Develop solutions to reduce wastewater loading, with a focus on cleaning process best practices.
3. Complete a lighting audit, suggest energy efficient LED alternative lighting, and identify rebate opportunities.
4. Complete a compressed air audit, and identify system leaks and an optimal pressure setpoint to save energy.
5. Explore the opportunity to close the loop on single pass cooling water.
6. Make recommendations for specific improvements based on research, testing, and calculation that will result in wastewater loading reduction, energy efficiency, and water conservation.
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 \$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 drug test and 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