

Internship: Lead a project focused on energy efficiency and water conservation at a medical device manufacturer.

Company: Olympus Surgical Technologies America – Brooklyn Park, MN

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on water conservation and energy efficiency with Olympus Surgical Technologies America. The intern will work with MnTAP and Olympus staff to investigate strategies to reduce water use and save energy. The intern will quantify these opportunities, with economic justification, 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. Evaluate the reverse osmosis, softening, and humidification systems to identify opportunities for water conservation and reuse.
2. Optimize the irrigation system to minimize water use.
3. Analyze the compressed air system. Identify system leaks and explore options to reduce pressure set point to save energy.
4. Investigate opportunities to turn off equipment when not in use.
5. Facilitate implementation of low/no cost energy conservation opportunities identified in Xcel Energy audit.
6. Research capital cost energy conservation opportunities identified in Xcel Energy audit. Assist facilities staff in determining priority of projects and developing cost justification and implementation plans.
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 \$18/hour, with a lump sum stipend of \$1,000 upon completion of the project deliverables: a final report and presentations. Cumulatively, this equates to \$20.00/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/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
200 Oak Street SE, Suite 350-1

Minneapolis, MN 55455 • mdomski@umn.edu

MNTAP IS THE HIRING BODY: DO NOT CONTACT THE COMPANY