

Internship: Lead a project focused on water conservation and energy efficiency.

Company: Beacon Embedded Works – Eden Prairie, 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 at Beacon Embedded Works. The intern will work with MnTAP and Beacon Embedded Works staff to reduce water use associated with the board washing process on production lines and humidification. The intern will also explore energy efficiency opportunities including compressed air audits, dual fuel heat pump rooftop units, and energy recovery ventilation. The intern will quantify these opportunities and develop suggestions to reduce water use 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 water uses within the facility.
2. Develop solutions to reduce water use, with a focus on the board washing process on production lines and humidification.
3. Identify processes using compressed air and coordinate a compressed air audit.
4. Explore other energy efficiency opportunities including dual fuel heat pump rooftop units and energy recovery ventilation.
5. Make recommendations for specific improvements based on research, testing, and calculation that will result in water and energy conservation.
6. Estimate water and energy reduction potential from implementation of provided recommendations, then prioritize suggested changes using simple payback methods for financial justification.
7. As appropriate, support implementation of approved process changes or outline 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 \$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 and company-required drug screening and be a U.S citizen or possess a valid Permanent Resident card.

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