

Internship: Lead a project focused on improving energy efficiency and reducing waste at a pulp and paper mill.

Company: Sappi – Cloquet

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on improving energy efficiency by reducing leaks in compressed air systems and reducing solid waste by mapping waste streams at Sappi in Cloquet, MN. Sappi Cloquet is a pulp and paper mill that produces dissolving wood pulp, kraft paper pulp and high-quality paper products. The intern will work with MnTAP and Sappi staff to map compressed air systems, develop inspection protocols and locate and quantify compressed air system leaks as well as reduce waste production and establish waste segregation protocols.

JOB DUTIES:

As part of this project, you will be asked to complete the following tasks:

1. Develop drawings and maps for the compressed air system in one priority area and complete a compressed air audit for that area.
2. Establish SOP for annual inspections of compressed air systems to ensure all leaks are identified, quantified and documented for repair.
3. Prepare template for leaks that identifies size of leak and potential cost savings.
4. Characterize the construction and demolition waste stream and industrial waste stream and identify opportunities for waste reduction, reuse, or recycling.
5. If time permits, conduct compressed air audits at other high priority areas and establish SOP for these other areas.
6. Estimate reduction or diversion potential and costs associated with implementation of recommended reduction opportunities, then prioritize suggested changes using simple payback methods to financially justify the alternative processes or equipment.
7. As appropriate, initiate approved changes and system upgrades and estimate the performance of upgraded systems.
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 \$14/hour, with a lump sum stipend of \$1,000 upon completion of the project deliverables: a final report and presentations. Cumulatively, this equates to \$16.00/hour when averaged over the project. Candidates must have a valid driver's license / legal authorization to work in the U.S. / and pass a physical and drug test.

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:

Nathan Landwehr, Intern Program Administrator
200 Oak Street SE, Suite 350-1
Minneapolis, MN 55455 • landwehr@umn.edu

MNTAP IS THE HIRING BODY: DO NOT CONTACT THE COMPANY