

Project: Lead a project focused on energy conservation and water reduction in a distillery.

Company: Phillips Distilling, Princeton, MN

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on compressed air energy reduction and water conservation at Phillips Distilling in Princeton, MN. The intern will identify compressed air baseline costs and efficiency opportunities. The intern will then research and suggest specific changes that would reduce compressed air use and work with staff to implement a maintenance program. The intern will research and quantify in-coming water use, and identify and justify opportunities for water recycling or reuse. The intern will map water use throughout the process to determine how wastewater is created and treated, then research opportunities to optimize water usage and decrease load in wastewater. The intern will consult with production, and facilities staff to audit, assess, recommend and implement approved water and wastewater recycling or reuse opportunities.

JOB DUTIES:

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

1. Identify compressed air baseline costs facility wide, including current state of leaks in the system.
2. Create maintenance program for compressed air system and cost justification for an ultrasonic leak detector.
3. Identify compressed air uses that could be replaced with alternate methods and provide cost justification for new methods.
4. Understand how water is used in the facility and identify places where it could be reduced or reused.
5. Test rinse water to determine which rinses could be reused and propose strategy to sort wastewater.
6. Investigate waste streams, including cardboard, sugar sacks, barrels, PET bottles and PET label backing to determine if alternate practices are cost effective solutions.
7. Implement and document approved changes or outline a strategy for 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 \$13/hour, with a lump sum stipend of \$1,000 upon completion of the project deliverables: a final report and presentations. Cumulatively, this equates to \$15.00/hour when averaged over the project. Candidates must pass a background check 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.

Cover letters can be addressed to:

Nathan Landwehr, Intern Administrator

200 Oak Street SE, Suite 350-1

Minneapolis, MN 55455 • landwehr@umn.edu

MNTAP IS THE HIRING BODY: DO NOT CONTACT THE COMPANY.