

Strengthening Minnesota businesses by maximizing efficiency and lowering costs through energy, water and waste reduction

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

Company: Puris, Dawson, 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 Puris in Dawson, MN. The student will be involved in resource efficiency projects in the plant, such as those listed below. This position will have a substantial impact on utilities efficiency leading to an improved plant based protein supply chain at the largest pea protein isolate facility in North America. The intern will quantify technical opportunities with guidance from mentors, develop suggestions and outline plans for implementation.

JOB DUTIES:

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

1. Investigate cooling tower cycles of concentration, biofouling effects and associated water and energy savings opportunities. – Perform a Cooling Tower Utilization Energy and Water Balance
2. Calculate savings potential for insulating spray dryers.
3. Determine technology options and savings opportunity related to baghouse pulse frequency modifications.
4. Work with vendors and controls experts to determine feasibility of automated floating pressure control techniques to save energy and materials in ammonia compression and water supply systems and compressed air systems
5. Evaluate and measure plant wide water uses and identify opportunities for water use reduction
6. As appropriate, initiate implementation of approved process changes or develop plans for future implementation.
7. Summarize findings in a detailed report, including recommended procedures and vendor proposals along with an economic analysis and justification of changes.
8. 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.

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