

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

Internship: Lead a project focused on water conservation at a local food processor.

Company: Old Dutch Foods

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on water conservation with Old Dutch Foods in both Roseville, MN and St. Anthony, MN. Old Dutch Foods manufactures potato chips, tortilla chips, and popcorn at two facilities in the metro. The intern will work with MnTAP and Old Dutch Foods staff to develop a water balance for the facility. This water balance will be used to identify areas of the process where opportunities for water conservation exist. The intern will quantify the savings from these opportunities and develop suggestions for implementation of related efficiency upgrades.

JOB DUTIES:

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

1. Identify and quantify water use in each process using previously recorded data, on-site data acquisition, or estimation.
2. Analyze and optimize water used for cleaning and sanitation, for both sites, by reviewing and collecting data, and observing cleaning practices.
3. Optimize water recovery processes and increase the amount that is reused throughout the facility.
4. Analyze well water treatment for water conservation opportunities such as filter backwash timing and scheduling.
5. Make recommendations for specific improvements based on research and testing that will result in water use reduction, reuse, treatment, or recycling opportunities. Consider energy savings that result from changes, as well.
6. Estimate reduction or diversion potential and costs associated with implementation of a recommended reduction opportunity, 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 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:

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