**Internship:** Lead a project focused on water conservation at an aluminum can manufacturer.

**Company:** Ball Corporation, St. Paul

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on water conservation with Ball Corporation, a high-volume aluminum can manufacturing plant in St. Paul. The intern will work with MnTAP and Ball Corporation staff to quantify the use of water in every part of the plant with focus on the washer system, water-clarifying system, and punch lubrication system.

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

1. Develop overall water balance for facility and work with engineering staff on-site to accurately measure flow in specific high water use areas.
2. Investigate deionized water and water softening system to determine proper control of reject water and any other opportunities for water use reduction.
3. Calculate the benefit of adding cooling tower capacity and adding District Energy hot water supply to facility.
4. Study wash system and determine proper freshwater flowrate, recycle rates and proper controls for the efficient management of these flowrates.
5. Investigate the possibility of reusing clarified water, destined for sewer, somewhere in process.
6. Assist on-site engineers with compressed air system optimization and explore novel solutions to reducing large compressed air uses.
7. Work with company management to determine the feasibility of alternative equipment, methods, or processes.
8. Create a plan for the implementation of approved changes and initiate the implementation of those plans as time permits.
9. Summarize findings in a detailed report, including recommended procedures and vendor proposals along with an economic analysis and justification of recommendations.
10. 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 $14.00/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 and others as applicable

**TO APPLY:**
Apply online at:
[www.mntap.umn.edu/intern/student_apply.htm](http://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