The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to lead a project focused on system optimization, energy efficiency, and waste reduction at IBM in Rochester, MN. This internship involves four major components: analyzing on-site data to investigate and alleviate sources of inefficiency within on-site cooling coils and air handling units; identifying and implementing a greener corrosion inhibitor for the corresponding chilled water system; researching and testing optimal steam and chilled water conditions; and ascertaining the cost and energy savings associated with using thermal storage water during times of peak electrical demand.

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

1. Analyze cooling coil data to identify patterns corresponding to efficiency issues.
2. Create a set of rules using building control systems to identify and alert staff of cooling coil efficiency issues proactively.
3. Implement these rules to optimize the cooling coil system.
4. Identify, propose, and implement a green alternative corrosion inhibitor.
5. Research steam and chiller system efficiency.
6. Optimize the efficiency of the existing steam and chilled water systems.
7. Justify the potential reduction of demand and energy costs associated with using stored water for cooling during the day and refilling the tank at night.
8. Organize and manage project tasks, activities, and project documentation effectively.
9. Communicate with MnTAP advisor and on-site supervisor to discuss project issues and solutions.
10. Work with IBM staff to implement identified solutions.
11. Summarize findings in a detailed report.
12. Present project findings to IBM staff and at a MnTAP hosted public presentation event.

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 have a valid driver license and pass a 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](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:
Linda Maleitzke, Intern Coordinator
200 Oak Street SE, Suite 350-1
Minneapolis, MN 55455 • lmaleitz@umn.edu

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