

## **Research energy use and oil mist generation at Roberts Automatic**

The Minnesota Technical Assistance Program (MnTAP) is seeking a junior or senior college student to work as project manager to reduce electrical and gas consumption in production areas and oil mist generation into work spaces at an industrial facility in Chanhassen, Minnesota.

### **PROJECT:**

The company wants to control operating costs and improve working conditions while complying with environmental and safety regulations and providing quality parts to customers.

### **JOB DUTIES:**

1. Determine the feasibility of better utilizing waste heat from the heat pumps and perhaps the air compressor.
2. Determine the feasibility of reducing oil mist generation from machine tools and whether that might allow for reducing air exhaust rates and as a result building heating and cooling demands.
3. Determine feasibility of using more efficient chillers to cool production areas.
4. Prepare and present analysis and justifications of changes that appear technically and economically feasible.
5. Implement approved changes and quantify savings and impacts.
6. Summarize findings in a detailed report, including recommendations and/or procedures along with an economic analysis and justification of any changes.
7. Present findings to the company and at MnTAP-hosted public presentation events, one of which may include a presentation at the Minnesota Pollution Control Agency (MPCA).

The intern will work at the company and report back to MnTAP. The position is full-time for 3 months to start after conclusion of spring semester or quarter. Pay is \$8.35/hour, with a lump sum stipend of \$2,500 upon completion of the project deliverables: final report and presentations (working out to \$13 an hour).

### **QUALIFICATIONS:**

- Cumulative GPA of at least 3.0
- Good oral & written communication skills
- A technical academic background
- Troubleshooting skills
- Appropriate majors:  
Chemical engineering, chemistry, civil engineering, mechanical engineering, physics, others as applicable

### **TO APPLY:**

Send a letter of interest/cover letter, your unofficial transcript, and resume to:

Krysta Larson, Intern Coordinator  
kjl Larson@umn.edu (preferred)  
200 Oak Street SE, Suite 350  
Minneapolis, MN 55455

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