

2010 Summer Jobs in Environment

Are you looking for a challenging summer job that allows you to make a real difference in the environment? Do you want hands-on experience working with experts in one of Missouri's top companies or government entities? Are you interested in earning a great salary while building your resume?

MU's Pollution Prevention (P2) Intern Program

As a summer P2 intern you will work on-site at a company that is dedicated to protecting the environment. Your job may help the company:

- ✓ Reduce greenhouse gases and hazardous air pollutants
- ✓ Reduce solid and hazardous waste
- ✓ Conserve energy
- ✓ Conserve and protect water
- ✓ Reduce costs

P2 Intern Program Impacts

In 2008 (our first year) we placed interns in three host companies. In 10 weeks, we achieved the following results:

Total	2008 Reductions
\$261,706	Potential cost savings
797,923	Electricity saved (kWh)
14,188	Natural gas saved (MMBTU)
112	Diesel fuel saved (gallons)
84	Waste and materials reduced (tons)
1,451	CO ₂ reductions (metric tons)
439	CH ₄ reductions (pounds)
23	NO ₂ reductions (pounds)

Frequently Asked Questions

What is Pollution Prevention?

Pollution prevention involves changing manufacturing operations to reduce or eliminate pollution (i.e., solid waste, hazardous waste, air emissions, energy use, water use) at the source.

Who is Eligible for the P2 Intern Program?

Upper level undergraduate students and graduate students from any accredited university or college in Missouri. Engineering students are preferred, but other students with strong interest and related study or experience are encouraged to apply.

When Will the Internships Start and Finish?

The 2010 program will begin May 17 with all selected interns successfully completing the week long, intensive CE 4001/7001 Pollution Prevention: Good Industry Practices and Applied Engineering, also known as "P2 Boot Camp." Interns are dispatched to host companies after the Memorial Day weekend, and complete the internships no later than August 13, 2010.

Will I get College Credit?

The week-long training is approved for 2 credits through MU College of Engineering. One additional credit can be obtained for successful completion of the summer internship, or for a research project approved by the Environmental Assistance Center and your academic advisor.

What is the Salary?

Companies are required to pay interns at least \$15 per hour. Some companies provide relocation assistance. The EAC will work to help identify low-cost housing options in the area of the host company.

What Types of Work Will I Do?

In the past, interns have conducted studies and cost analyses for improvements in lighting, heat recovery, boilers, compressors, furnaces, water and wastewater treatment, process efficiencies, materials substitution.

How Do Projects Work?

Interns work for the host company and report to a company supervisor. Throughout the summer, interns will have support (if needed) from the Environmental Assistance Center and College of Engineering faculty. Interns are usually able to assess the company's processes to identify and evaluate pollution prevention opportunities. Working with management and employees, the intern will determine the feasibility of the various options and develop cost comparisons. After writing a final report that documents the process, findings and recommendations, the intern presents this information to the company and to the Environmental Assistance Center.

CE 4001/7001 Pollution Prevention: Good Industry Practices and Applied Engineering

This is a 3 credit hour course offered from 8:30 a.m. to 5 p.m., May 17-21, 2010. It focuses on methods, applied engineering, and tools that will benefit every student of engineering, environment or business. In today's global economy, P2 strengthens a company's competitiveness, and is an integral part of total quality management, lean manufacturing and other industry innovations.

Course content includes:

- Introduction to P2
- Regulatory overview
- How to successfully develop and implement projects
- Where the greatest savings can be found in almost every business
- Designing the project and writing successful technical reports
- Related computer models and resources
- Calculating total environmental costs and how to fund projects
- Case studies

For more information contact:

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