



10-17-05

An industrial design project submitted to the University of Idaho, College of Engineering by Blue Water Technologies, Inc. has been selected as a Senior Capstone Design Project. The UI Senior Capstone Design team is an interdisciplinary team consisting of two mechanical and two electrical undergraduate engineers. Academic assistance and mentoring are provided by three UI faculty professors and a graduate student mentor.

Since its inception, Blue Water has maintained strong academic ties to the UI and recognizes its role in education on all levels as not only a commercial producer but also a research leader in advanced water and wastewater treatment systems. In a collaborative effort with the UI College of Engineering, Blue Water is developing an electro-mechanical wastewater monitoring system. The College's Senior Capstone Design program implements multiple, yearlong, real world industry projects, providing an opportunity for educational growth and industry networking for seniors in the College of Engineering.

The team will be responsible for developing an online working prototype of an innovative water quality measuring device targeting influent water chemistry. The goal of the design project is to arrive at a superior methodology for real-time operational adjustments to optimize Blue Water's phosphorus removal process.

This yearlong development process will include multiple iterations of the conceptual design, fabrication of the design, and statistical testing and verification of the prototype. Documentation including budgets, design concepts, and fabrication drawings will be intermittently submitted to Blue Water for review and collaboration.

The final product will be tested during an extended protocol at the Hayden Wastewater Research Facility beginning in May 2006.