



UNC CHARLOTTE

The WILLIAM STATES LEE COLLEGE of ENGINEERING

Senior Design Newsletter

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2010 Call for Fall Projects

We expect to have over 250 students of Civil, Computer, Electrical, Mechanical and Systems Engineering disciplines available for projects this fall. It is never too early to begin working on Project Descriptions for fall projects. We have many great examples on our website www.srdesign.uncc.edu for the projects in process. If you need help in drafting a Project Description, please feel free to contact Bill Heybruck or look on the website under Company Information (<http://srdesign.uncc.edu/company-information.html>).

The deadline for Project Description documents is AUGUST 1st

Systems Engineering Projects

The Systems Engineering program at UNC Charlotte will have seniors available for projects this fall. Examples of projects they are looking for are:

- Optimization of Production Scheduling
- When is it time to move a production facility?
- Should you use returnable containers for manufactured goods?
- Optimization of Manufacturing Processes for different parts
- Utility Expansion Options

If your company has a problem or an idea that is applicable to our Systems Engineering group and want it addressed over the next two semesters, please contact us.

Looking for Sponsors:

We have several professors with projects in mind that are looking for sponsors. Is your company interested in this technology? Would you like to steer the work described below? Consider being a sponsor for the standard sponsor fee of \$5000 and share the discovery. Here are the projects currently on this list. For the latest list, check out the PROJECTS page on our website.

Remotely powered Self propelling device- In this project we demonstrate that various types of miniature semiconductor diodes floating in water act as self-propelling particles when powered by an external alternating electric field.

Nanofluids convective heat transfer experiment-The objective of this project is to build and test a convective heat transfer experiment using new family of fluids with elevated heat transfer rates: nanofluids.

Spray and impingement cooling heat transfer experiment using nanofluids- The objective of this project is to build and test spray and impingement cooling heat transfer experiment.

For more information or questions

Visit: www.srdesign.uncc.edu or contact Bill Heybruck at 704-687-2934 or wfheybru@uncc.edu.

Please REPLY with "REMOVE" if you do not want to receive future issues.