

UNC Charlotte College of Engineering Senior Design Program Process for Supporting an ME, EE, Computer E, SE and CE Project

Thank you for your interest in participating in the UNC Charlotte College of Engineering Senior design program. The program's goal is to match our students with local companies to work together and solve design problems. In this capacity, our students gain real world engineering experience while local companies benefit from completed work on elective research projects. The ideal project should not be on a critical path for the company, nor pertain to trade secrets or corporate sensitive information. While the results of the projects cannot be guaranteed, there are a number of checks and balances put into place to monitor the team's progress and keep the industry supporter updated and abreast of any changes. The senior design teams typically consist of 3-6 students and we estimate about 250 hours of work output per student over the two semester course. There are two options available for staffing projects: 1) A single team producing one solution and one prototype, requiring a donation of \$7,000, 2) Two teams generating two separate solutions and prototypes for the same project idea, requiring a donation of \$10,000. Payment for either option will be invoiced in **September 2014**. Student teams will have a budget of up to \$3,000 for parts and services for their prototype. Expenses in excess of this will be discussed with the supporter.

The documentation required from each participating industry supporter and the associated deadlines are listed below. The senior design course coordinator would be happy to assist with defining the scope of the project so that it fits within the academic schedule if needed.

1. Submit a short description of the intended project with expected deliverables/results. (Project Description form)
2. Provide the contact information for the technical and the financial representatives.

Project work starts in January with the Senior Design Kickoff Breakfast on August 30th where the teams will start to discuss the project requirements with their supporters. Additional milestones are as follows:

- Students submit work breakdown structures, schedules, risk assessments, budgets, change requests, design documentation and reports to their supporter throughout the two semesters.
- The supporter attends design reviews in both semesters to evaluate progress/test results.
- Students present their completed design work at the Design Expo at the end of the first semester (December 5, 2014).
- The second semester is the implementation phase, where students implement their design into a prototype or model and test.
- Students generate appropriate hardware and documentation.
- Completed prototypes and models are displayed at our EXPO on April 29, 2015.

Yes, we are interested in participating in the UNC Charlotte College of Engineering Senior Design Program!



UNC CHARLOTTE

The WILLIAM STATES LEE COLLEGE of ENGINEERING

UNC Charlotte College of Engineering Senior Design Program Company Profile 2014-2015 School Year

Company Name:

Project Title:

Technical Contact(s)

Name:

Phone number:

Fax number:

Email address:

Mailing address:

Financial Contact

Name:

Phone number:

Fax number:

Email address:

Mailing address:

Mail or e-mail to:

Terry Jordan | Director
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The William States Lee College of Engineering
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Senior Design Project Description for FALL 2014

Project Title:

Supporter:

Supporter Technical Representative:

Faculty Mentor: _____ ASSIGNED _____ TBD (check one)

Single Team _____ Dual Team _____ (check one)

Personnel (EN/ET): _____ E, _____ Cp, _____ Cv, _____ M, _____ SE

(Complete if the number of students required is known)

Expected person-hours: (250 per student)

Description of Project:

This is a general description and background information.

Initial Project Requirements (e.g. weight, size, etc.):

This is a description of the project itself – describing what the project team will actually be doing.

Expected Deliverables/Results:

Put all deliverables that the team is to provide to the supporter.

List here any specific skills or knowledge needed or suggested (If none please state none):