Each year, more than 100 leading manufacturing companies, pharmaceutical and medical firms, consulting practices, utilities as well as local, state and federal government agencies partner with the UConn School of Engineering through Senior Design Projects.

Every Senior Design Project is a two-semester course required for all School of Engineering seniors to graduate. Each team of 3-5 seniors is mentored by Engineering faculty collaborating with the sponsor.

Sponsors gain first-hand experience of teaming up with potential future employees to help the project succeed. Our students learn how to work collaboratively in a real-world setting, while producing periodic reports on their ideas, strategy, techniques and progress.

Students apply the engineering skills they have acquired. The principles of design, how ethics affect engineering decisions, how professionals communicate ideas and the day-to-day implications of intellectual property. They begin by researching the problem, brainstorming a range of solutions, and traveling to the sponsor’s site to learn more about the sponsor and the project. Student teams maintain contact with their industrial and faculty mentors, hold meetings, and make presentations on their work. Students submit written reports at intervals throughout the two-semester project timeline, and present oral presentations at the project’s conclusion.

**WHAT IS THE Senior Design Program?**

**seniordesign.engr.uconn.edu**

**Type of Projects**

- Research and analyze the problem
- Conceptualize new or alternate solutions
- Design or refine a method
- Construct a working prototype
- Synthesize design know-how
- Perform simulations
Benefits to Sponsors

**Value:** For a modest fee, a small team of “almost engineers” will partner with you, supervised by both you and our faculty.

**Tackle a Challenge or Explore a New Idea:** Our sought-after students and faculty will assist you to research and analyze, conceptualize alternate solutions, design and refine a method, construct a working prototype, etc.

**Strategic Recruiting:** The program can provide a pipeline of talent to fill growing numbers of high-tech vacancies. Many sponsors are expecting a large percentage of their most experienced employees to retire soon.

**Senior Design Students are Potential Employees:** Sponsors have the opportunity to collaborate with, cultivate and evaluate undergraduate students as prospective employees. Senior Design Projects provide eight months to observe students’ performance and how they fit your working culture.

**Access to UConn’s Expertise:** Senior Design Projects give you access to expertise of UConn faculty, and state-of-the-art laboratories and equipment.

**Visibility:** Students will share their impressions about your organization.

Benefits to Students

**Application of Learned Engineering Skills:** Senior Design Projects allow students to sharpen learned engineering skills in a real-world environment. These include: problem analysis, design analysis, experimentation, use of leading CAD and analysis software, innovation, communication skills, and teamwork, often within an interdisciplinary team.

**Improved Marketability:** By having real-world engineer responsibilities for two semesters, students improve their marketability in the job marketplace.

**Partner with a Potential Employer:** Throughout the two-semester experience, students are exposed to products, engineering practices and working culture, allowing them to assess the sponsor as a prospective employer.

Contact
Charles Maric
Director, Senior Design Business Development
Office of the Dean, School of Engineering
University of Connecticut
charles.maric@uconn.edu
Office: (860) 486-2297 Mobile: (860) 428-2258
Fax: (860) 486-5111
seniordesign. engr. uconn. edu

Senior Design Leaders

**Biomedical Engineering**
www.bme.uconn.edu
Dr. Krystyna Gielo-Perczak
krystyna.gielo-perczak@uconn.edu
(860) 486-0370

**Chemical and Biomolecular Engineering**
www.cbe. engr. uconn. edu
Dr. Daniel Burkey
daniel.burkey@uconn.edu
(860) 486-2167

**Civil Engineering**
cee. engr. uconn. edu
Dr. Wei Zhang
wzhang@uconn.edu
(860) 486-5642

**Computer Science & Engineering**
www.cse. uconn. edu
Dr. Joseph Johnson
joseph. 2. johnson@uconn.edu
(860) 486-7908
or
Dr. Swapna Gokhale
swapna.gokhale@uconn.edu
(860) 486-2772

**Electrical and Computer Engineering**
www.ee. uconn. edu
Dr. Liang Zhang
liang.zhang@uconn.edu
(860) 486-4462

**Environmental Engineering**
www. engr. uconn. edu/environ
Dr. Timothy Vadas, Coordinator
timothy. vadas@uconn.edu
(860) 486-5552

**Management & Engineering for Manufacturing**
www. mem. uconn. edu
Dr. Jiong Tang
jiong. tang@uconn.edu
(860) 486-5911

**Materials Science & Engineering**
www.mse. engr. uconn. edu
Dr. Rainer Hebert
rainer. hebert@uconn.edu
(860) 486-3155

**Mechanical Engineering**
www. engr. uconn. edu/me
Dr. Vito Moreno
vito. moreno@uconn.edu
(860) 486-5342