



Does your organization seek a fresh perspective to problem-solving, need to move a backburner project forward, or wish to develop a talent pipeline of next-generation engineers? Partnering with Wake Forest students on a Capstone Design Project is a wonderful opportunity to invest in the future of your organization as well as the engineers of tomorrow.



Real Solutions for the Real World

Grounded in a culture and curriculum that values the liberal arts and positive societal change, Wake Forest Engineering students are uniquely prepared to tackle the real-world, multi-disciplinary engineering problems presented in the Capstone Design Projects.

Project teams of 3-5 seniors design and build innovative solutions that meet client, user, and stakeholder needs, with a focus on how their work positively impacts the human experience in the spirit of Wake Forest's *Pro Humanitate* motto. Capstone Design Projects require students – under the guidance of faculty advisors and industry mentors – to think entrepreneurially, creatively, critically and ethically to develop functional prototypes not yet imagined.

WAKE FOREST UNIVERSITY DEPARTMENT OF ENGINEERING

Capstone Design Projects

Why Wake Forest?

Wake Forest is pioneering a new path for engineering education, with the nation's only B.S. program offered by an undergraduate-only department with a curriculum grounded in the liberal arts tradition at a research university. Our drive for innovation is closely connected to our culture of inclusivity, and we value the unique solutions that can only come from a diverse set of backgrounds and experiences.

- Students call 20+ states and 10+ countries home
- 40% of students and 58% of faculty are women (vs. 17% and 10% nationally)
- 20% of students are members of underrepresented groups (vs. 5% nationally)
- Faculty represent experience in 12 engineering disciplines

WHAT PROJECTS ARE POSSIBLE?

Wake Forest Engineering students understand that tackling real-world problems requires diverse perspectives. Our Capstone Design Projects embrace this mindset by soliciting design project ideas from many sources, including industry, government and nonprofit organizations.

WHAT ARE THE BENEFITS?

Sponsor benefits include:

- More than 1,600 person-hours dedicated to each project;
- Relationships with next-generation engineering talent, beneficial for recruiting efforts;
- Fresh perspectives from and brand awareness among tomorrow's engineering leaders;
- Offering professional development opportunities through mentoring students to the sponsoring organization's technical mentor; and
- Access to brand new labs, innovation makerspace, clean rooms, 3D printers, materials testing equipment, plasma cutter, PCB milling machines, and other research-grade equipment.

“The culminating capstone design experience is the embodiment of what our program represents in its approach to developing innovative solutions, demonstrating interdisciplinary perspectives, applying engineering fundamentals, and making a positive impact in our communities.”

**OLGA PIERRAKOS, FOUNDING
CHAIR AND PROFESSOR**



Students gain invaluable technical engineering experience in team-based designing, project management, leadership development and professional communication.

WHAT DOES SPONSORSHIP ENTAIL?

Sponsoring a Capstone Design Project team involves time and a potential financial investment. Ideal sponsors will receive the greatest ROI when they give generously of their mentoring skills, share valuable expertise with the capstone team, and provide funding support for materials, supplies, small equipment, prototyping, and professional development for our students.

SAMPLE TIMELINE

- January - April 1 - Project solicitation and proposal period
- April - Student teams select projects
- August - Mentor orientation and team kickoff
- September-April - Project work, weekly meetings with mentors
- April - End-of-year design showcase



Contacts

If you are interested in learning more about proposing a project, mentoring our students or becoming a sponsor, let's continue the conversation.

FOR SPONSORSHIP-RELATED INQUIRIES:

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FOR CURRICULAR, MENTORSHIP OR PROJECT-RELATED INQUIRIES:

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LEARN MORE AT ENGINEERING.WFU.EDU

“I received great feedback from my employer last summer, who said I was just as, if not more prepared than the other intern I worked with who came from a larger, more established engineering program. I am excited to combine all of the knowledge we have built in the last three years into something my group and I can take into our own hands and accomplish.”

REGAN O'DONNELL ('21),
BOSTON SCIENTIFIC INTERN, 2019 & 2020



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