Biomedical Engineering Senior Design Industry Outreach Statement

Senior design projects are an excellent way for your company to engage with future recruits. By sponsoring students with a real-world design challenge, you provide them with a glimpse of working as an engineer in “the real world”, while also branding your company. This project caps off the undergraduate experience and challenges students to integrate and apply knowledge gained in four years. During the senior design project experience, students put their societal engineering skills to use, including professional ethics, teamwork, and oral and written communications.

Projects:
- A good design project includes the following phases:
  - Design- identify needs, determine constraints, sketch and brainstorm.
  - Prototype- make design through 3D printing, assembly of parts.
  - Test- test design prototype to determine how well design meets constraints.
- Projects are conducted by teams of two to five students, typically in areas such as biomedical instrumentation, biosensors, tissue engineering, biomechanics, neuroengineering, biological signal processing, biological modeling and simulation, clinical imaging, or global health.

During Fall Semester (September-December), Students:
- Dedicate 8-10 hours per week to project work.
- Begin researching the project in the second week of the semester (mid-September).

During Spring Semester (January- April), Students:
- Dedicate 10-15 hours per week to project work from January to mid-April.
- Spend the majority of their time working on their project at the project site and the remainder of their time on required written/oral coursework (progress reports, final report, and final presentation).

The industrial technical advisor is expected to:
- Provide at least 2 regular meetings of advising per month) advising meetings for each group.
- Review and approve all writing assignments before student submissions.
- To provide grades on student’s effort once each semester.
- Access to BU facilities: If project design/manufacturing can be performed off-site, students have access to fabrication facilities and manufacturing materials through BU Engineering Product Innovation Center (EPIC).

To submit your project, submit a brief one-paragraph description and the required areas of expertise to complete the project, through the following form https://goo.gl/forms/mNMuvRxqzGMQ79QN2 by August 1, 2019. We will give the complete list of projects to the students. You will have the opportunity to interview and choose from individual students interested in your project or pre-formed student groups. Your company is invited to join our students and representatives from more than 60 biomedical companies and local hospitals at the final Senior Project Conference on May 1, 2020. You can view our conference proceedings from the 2018-2019 academic year here: https://indd.adobe.com/view/b981c678-1eae-47ca-bb36-2f5b8627016e

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