

BMES Design Competition

Presented by Biomedical Engineering Society (BMES) and PLEXUS

September 15, 2016

Competition Rules

Teams can be up to four undergraduate students from the University of Pennsylvania. You may use any resources from Penn's campus (i.e. computer programs, SolidWorks, hardware labs, etc.), as well as any online resources.

The competition will be divided into two phases:

Phase 1: Based on the problem statement, teams will be required to submit a write-up detailing their proof of concept, including background information about what specific issue within the prompt they are focusing on.

Phase 2: Teams will build a physical or digital prototype that models their product and a slidedeck outlining their approach and general business plan.

Judging will take place on **Friday, November 4th from 3-7 pm** at PLEXUS Healthcare Innovation Hub on 30th & Market. Please be ready to present your slidedeck and your product during a 15 minute presentation to the judging panel. 4 teams will move onto the semi-finals after the first round of judging. Attire is business casual.

First-place winner will receive the **PLEXUS Innovation Prize: Three months of unlimited access to PLEXUS resources and facilities to develop their projects and ideas (typical monthly fee \$575 — prize worth \$1,725).**

Materials for phase 1 will be due **Tuesday, October 25th at 11:59 pm**. Materials for phase 2 will be due **Thursday, November 3rd at 11:59 pm**. Please send all relevant attachments in an email to tengs@seas.upenn.edu and alexmar@seas.upenn.edu.

Problem Statement

As the life expectancies stretch farther and the Baby Boomer Generation continues into their older years, there has been an increased need for scientific developments in the field of **aging**. Given this demand, we believe that medical technology innovations for problems associated with aging will be particularly applicable. Your goal is to design some sort of product (app, medical device, etc.) that will target one or more of these problems. We encourage you to be as creative as possible and work with others from different disciplines to gain a holistic approach to the problem.

If you have any additional questions, please feel free to email tengs@seas.upenn.edu and alexmar@seas.upenn.edu.

Good luck!