

March 23, 2015

President of the United States
The White House
1600 Pennsylvania Avenue NW
Washington, DC 20500
Dear Mr. President,

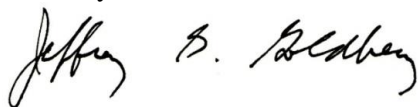
In response to calls for our Nation to address 21st-Century Grand Challenges, our College has invested in and extended our programs to educate a new generation of engineers expressly equipped to meet societal challenges identified through national initiatives, including the White House Strategy for American Innovation, the National Academy of Engineering Grand Challenges for Engineering, and the United Nations Millennium Development Goals.

Examples of curricular changes and enhancement that we have made in recent years include the following:

- Incorporation of Grand Challenges subject materials in the Introduction to Engineering course that we teach to all 650 new freshmen in our College annually;
- Development of our capstone engineering design course to incorporate project-based experiential learning in cross-disciplinary teams that work with industrial clients under the guidance of mentors who have extensive experience in engineering practice;
- Development of coursework pathways for students to initiate work on their own entrepreneurial ideas, beginning in their junior year, and carry that work through to a summative, mentored learning experience in their senior year, where students have the opportunity to launch a new product or business;
- Increased our work with our University's Office of Global Initiatives and our Honors College to offer study abroad experiences (at little to no extra cost to the student) that provide global and cross-cultural experiences;
- Increased administrative support of engineering clubs, such as Engineers without Borders and the Society of Hispanic Engineers, as well as our Engineering Student Council, who engage in socially-conscious service-learning projects in our community and, in some cases, abroad.

Owing to our commitment to educate a new kind of engineer, we anticipate that we will continue to work with our students, community, and industry and invest in this vein for the foreseeable future. Furthermore, we commit to establishing a program that will award academic credentials to our students who have formally engaged in the key curricular elements, of the sort summarized above, that will develop an understanding of innovation, entrepreneurship, and global and cross-cultural perspectives on the challenges that face humanity, as well as cultivate a socially-conscious commitment and ability to lead the profession forward and improve the human condition.

Sincerely,



Jeffrey B. Goldberg
Dean, College of Engineering