

OFFICE OF THE PRESIDENT

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March 23, 2015

The Honorable Barack Obama President of the United States The White House 1600 Pennsylvania Avenue, N.W. Washington, DC 20500

Dear President Obama,

We are excited to participate in **#uifresh (University Innovation Freshmen)**, an initiative spearheaded by the University Innovation Fellows as a means to expand the participation of incoming first-year students into STEM disciplines. The program will help young students see problems as opportunities that should be approached with fresh eyes and an entrepreneurial mindset. As part of the initiative, University Innovation Fellows will work with Orientation Week organizers to hold design thinking, creativity and innovation workshops that connect first-year students to peer communities of makers and innovators in STEM.

The initiative was developed in response to findings published by the President's Council of Advisors on Science and Technology, in a report titled "Engage to Excel: Producing One Million Additional College Graduates With Degrees in Science, Technology, Engineering and Mathematics." The report indicates that 60% of U.S. freshmen (in aggregate) who arrive to college intending to major in STEM, change majors to non-STEM disciplines over time. The report also cites the importance of the student experience that is connected to a community of STEM professionals and meaningful relationships with both peers and instructors, as a key factor in reducing departures from STEM fields.

Orientation week organizers will work with University Innovation Fellows to implement short, fun and engaging experiential learning opportunities that expose 100% of our incoming freshmen class the institution's community of makers and innovators, with the goal of reducing the national percentage of STEM attrition by half in five years.

We believe students can have a powerful impact in driving student engagement in STEM, and we are excited to work with the University Innovation Fellows, a program of the NSF-funded National Center for Engineering Pathways to Innovation (Epicenter), to enhance STEM attraction and retention to ultimately meet U.S. workforce needs and strengthen our national competitiveness.

Sincerely,

Dean L. Bresciani President

NDSU NORTH DAKOTA STATE UNIVERSITY

March 20, 2015

The Honorable Barack Obama President of the United States The White House 1600 Pennsylvania Avenue, N.W. Washington, DC 20500

Dear President Obama,

We are excited to participate in **#uifresh (University Innovation Freshmen)**, an initiative spearheaded by the University Innovation Fellows as a means to expand the participation of incoming first-year students into STEM disciplines. The program will help young students see problems as opportunities that should be approached with fresh eyes and an entrepreneurial mindset. As part of the initiative, University Innovation Fellows will work with Orientation Week organizers to hold design thinking, creativity and innovation workshops that connect first-year students to peer communities of makers and innovators in STEM.

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Sincerely,

Beth Ingram Provost

Beth Angram

¹ https://www.whitehouse.gov/sites/default/files/microsites/ostp/pcast-engage-to-excel-final_feb.pdf



NORTH DAKOTA STATE UNIVERSITY

701.231.7287 Fax 701.231.7195

Department of Industrial & Manufacturing Engineering 202 Civil & Industrial Engineering Building P.O. Box 5285 Fargo, ND 58105-5285

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Sincerely,

The North Dakota State University University Innovation Fellows

Andrew Dalman

Jordan Brummond

Jacob Larson

Drew Spooner

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Sincerely,

Dean,

College of Science and Mathematics

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Jane∕Schun, Ph.D.

Interim Dean, College of Business