



Date: 25th February 2016

To Whom It May Concern:

I am a faculty member at the Information Technology University in Lahore, Pakistan, and the Director of the Innovations for Poverty Alleviation Laboratory (IPAL). As a former Fulbright fellow and a very active member of the International Development Innovation Network (IDIN), including recently being the lead organizer for a two-week hands-on design summit on information and communication technologies for development issues in our local area, I am familiar with various programs working to integrate engineering and sustainable development.

I am writing to support Oregon State University's submission for a STARS Innovation credit for their Humanitarian Engineering program. With a growing need for sustainable development throughout the world, the Humanitarian Engineering, Science and Technology (HEST) program at Oregon State can make a unique contribution. The focus on social and cultural context and impacts is a core learning outcome of the program. By producing graduates sensitive to these aspects well outside the typical engineering curriculum, OSU can make a lasting impact in training engineers that have a higher degree of 21-st century skills that are applicable in any professional environment. In addition, developing an awareness of inequities and local and global needs prepares them to be global citizens.

The program recently received approval for an undergraduate minor in humanitarian engineering. By Fall 2016, four new HEST courses will have been co-taught by eight faculty on campus (typically two per course), including HEST411/511 Engineering Design for Emergency and Low-Resource Environments, HEST 299/599 Household Energy in Guatemala (field course), HEST 399 Engineering for Global Health Solutions and HEST 310, Introduction to Community Engagement and Co-Design. OSU has raised over \$1.7M to support the program to date, primarily through private gifts, and awarded 11 graduate fellowships, primarily to female engineers. OSU currently has three capstone design teams working on HEST projects in Mechanical Engineering, and about 70 students regularly participate in their Engineers Without Borders chapter. The program regularly conducts outreach and local Society of Women Engineers Professional Chapter won a regional award for innovative programming for the fall program on humanitarian engineering.

Yours Respectfully,

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