

Shultz Family Humanitarian Engineering Faculty Fellowships
Deadline for submissions: August 31, 2015

Through the generosity of the Shultz Family Leadership in Humanitarian Engineering Fund, applications are sought for two **Shultz Family Humanitarian Engineering Faculty Fellowships**, which will cover the period from September 2015 to June 2017. Two additional fellowships will become available for the January 2016 to December 2017 period, which will be advertised through a separate call.

Goal: These fellowships are intended to encourage the involvement of more engineering and science faculty in the Humanitarian Engineering (HE) program. Selected faculty members will be given the designation “**Shultz Family HE Faculty Fellow**” for the period of the award, as well as resources enabling them to: (1) develop, pilot, assess and improve a HE course and (2) develop and lead a student team in a two-semester HE project.

Program Details:

1. Term of Appointment: September 2015-June 2017
2. Resources: HE Faculty Fellows will receive:
 - a. \$10K into their research development fund.
 - b. Funds to buy out one of their regularly assigned courses in Spring 2016 and Fall 2016.
 - c. Up to \$10K in funding to support a two-semester student HE project team, which Fellows can propose into the sequence of sr design courses (EGGN 491/492), or into two semesters (6 cr) of Projects for People (EGGN 401), or a mix.
3. Expectations and Timeline:
 - a. **Fall 2015** – Fellows will a) work closely with HE faculty to either develop a new HE course or to modify one of their existing courses to incorporate significant HE content, to pilot in the Spring 2016 semester, and b) complete a short clinic (1/2 day) to integrate social justice dimensions that are inherent in their HE courses.
 - b. **Spring 2016** – Fellows will a) pilot and assess their HE course in lieu of a regularly-assigned course, and b) complete an online course in Human Centered Design to better understand how to mentor HE design teams and demonstrate a certificate of completion (see for example <http://plusacumen.org/courses/hcd-for-social-innovation/>)
 - c. **Summer 2016** – Fellows will a) use assessment data to improve the second offering of their course in Spring 2017, b) work with HE faculty to prepare a conference paper based on this experience, and c) develop a two-semester project to be executed by students (in EGGN 491/492 or 401) during the 2016-2017 academic year.
 - d. **Fall 2016-Spring 2017** – Fellows will mentor one, two-semester project team in addition to their regularly assigned courses.
 - e. **Fall 2016** – In light of assessment data, Fellows will recalibrate their HE course.
 - f. **Spring 2017** – Fellows will deliver their HE course for a second time.

Throughout the fellowship period, HE Fellows will participate in Mines HE community by attending HE seminars, interacting with HE students, and other relevant activities as they arise (approx. 10 hr/semester). They will also attend (and preferably present a paper at) the IEEE Global Humanitarian Tech Conference (in October) or at the Humanitarian Technology conference (in May) or at the American Society of Engineering Education (ASEE) (in June), using part of the \$10K added to their research development funds for travel support

To Apply: Submit a single document containing the following to Juan Lucena (jlucena@mines.edu) by August 31, 2015:

1. A statement (between 300-500 words) describing why you want to be an HE Faculty Fellow.
2. A description of the course you propose to develop or modify and deliver and where and how you will *integrate* HE content with technical content. This course should have significant technical content, while also reinforcing the values and precepts of HE, including the program’s commitment to Social Justice and Human Centered Design. Courses will be proposed as technical electives (see <http://humanitarian.mines.edu> for more information on the program).
3. A description of the two-semester project you would like to pursue and thoughts on expected partnering (NGOs, companies, etc.). Special preference will be given to applicants who propose to include low-income/first-generation (LIFG) students in the proposed project.
4. A certification that your Department Head supports your application and indicates support for your integration after the Fellowship is over.

Questions: Contact Kevin Moore (kmoore@mines.edu) or Juan Lucena (jlucena@mines.edu)