Re: Architectural Engineering

Momsen, Ellen
Sent: Friday, March 24, 2017 3:02 PM
To: Liu, Judy

Hi Judy—
This is very exciting! AE should be a great help in our diversity efforts….I know that at UT Austin, Architectural Engineering has an even higher percentage of women that BioMedical Engineering.

Here in the COE, our diversity efforts are managed through the LSAMP program (an NSF funded program that we have had for the past 7 years. I am the PI) http://lsamp.oregonstate.edu We visit high schools, support an advisor at the local community college (LBCC) once day per week and at Chemeketa CC once a month. We have been hosting a "Day at OSU" each term for URM students who are currently in community college. We have a summer bridge program for incoming first year URM students (about 60 students each year) and a Leadership Program for first year and transfer students (about 200 students). Each year, we have a Pacific Northwest LSAMP Conference. It was at OSU this year (March 2017) and over 250 URM STEM students from community colleges and universities in the northwest attended.
Diversity groups include: SHPE (Society of Hispanic Professional Engineers) and NSBE (National Society of Black Engineers).

We can get the word out to prospective students in a wide variety of ways! To reach prospective students, we have a COE Ambassador Program: current COE students visits high schools throughout the state, and leads tours of the College each day at 2pm. We have over 5000 students come as school field trips: they come to visit the wave lab and also get to hear a presentation on all our engineering majors. We participate in the Oregon Science Teachers Association conference each year.

We also partner with PreCollege Programs which offers a wide variety of K12 engineering camps and activities.

Let me know if I can help!
Best wishes—
Ellen

From: "Liu, Judy" <Judy.Liu@oregonstate.edu>
Date: Thursday, March 23, 2017 at 10:25 PM
To: "Momsen, Ellen" <Ellen.Momsen@oregonstate.edu>
Subject: Architectural Engineering

Ellen,

I hope you are doing well. Apologies for the e-mail out of the blue -- I am hoping that you might be able to find some time to help me with some information for a Cat. I proposal for a new B.S. in Architectural Engineering degree.

I've copied some draft text from the proposal below for your reference. As you can see, we have some information about female students in Architectural Engineering and potential recruitment efforts, but really nothing about other underrepresented minorities. Does your office have standard text or other information that we could use about recruitment and retention efforts through Women and Minorities in Engineering? If it is all information that I can find on your website, I can pull that on my own.

Do let me know if I can provide more information or if you have any questions.

Thank you for your time,
Judy

Ways in which the program will seek to assure quality, access, and diversity.

"...Goals 2 and 3 of the OSU Campus Diversity Action Plan and the College of Engineering (COE) strategic plan on including inclusive and collaborative communities will be central to the proposed AE program. Specifically, faculty will work on an "effective recruitment pipeline" to accommodate changing demographics, with increasing numbers of women and underrepresented minorities. Faculty will also strive to provide a climate that ensures retention and graduation rates of underrepresented students and women that are on par with those of majority populations in engineering. Mike Brayson, Mt. Hood Community College Advisor of Architectural Engineering Technology (AET), notes in his letter of support that "In reviewing the proposal there was some mention about how the Architectural Engineering program could potentially attract more students with ethnic and gender diversity. I would like mention that yes, this matches the experience we have had with the AET program at MHCC. This is anecdotal, but I would estimate that the female and minority populations that have graduated with AET to be about double of what we have experienced with the other ET offerings."

"Architectural Engineering attracts greater percentages of female students than many other engineering disciplines, as evidenced by 2015 enrollment data from the Pennsylvania State University (PSU) (Table 3). Architectural Engineering has more than twice the female enrollment of Civil Engineering, and, at 35%, has among the highest percentages of female students in the College of Engineering. Similar trends were noted for Fall 2014 enrollments. Informational print, e-mail and website materials for the proposed AE program will have targeted distribution to female students; faculty will utilize their associations with the Society of Women Engineers, Women in Engineering programs, Phi Sigma Rho, and other organizations to reach this traditionally underrepresented group. It would be the goal of the COE and CCE to continue to encourage participation in underrepresented groups."

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