



The John C. Mascaro Faculty Fellowships in Sustainability

Application Deadline: Friday, October 20, 2017

The Mascaro Center for Sustainable Innovation (MCSI) is pleased to announce the continued support of Faculty Fellowships in Sustainability. The John C. Mascaro Faculty Fellowships are designed to enhance the university's mission of interdisciplinary excellence in sustainability research and education. Faculty members from all disciplines across the University of Pittsburgh are encouraged to apply.

Each fellowship will be one year in duration, with the option for renewal for an additional year, and annually provide \$25,000 in support. During the fellowship period, Fellows will be expected to contribute to intra- and inter-disciplinary sustainability research, as well as enhance our core sustainability courses that serve as pillars for the university's new undergraduate certificate and M.S. degree in Sustainable Engineering.

Expectations for the Faculty Fellows:

- Co-teach the Current Issues in Sustainability course (Fall) or the Sustainability Capstone course (Spring). *See course descriptions below.*
 - Interdisciplinary theme and syllabus due July 1st, 2018.
- Contribute to large grant proposal submissions;
- Create new sustainability research collaborations and directions (as evidenced by paper submissions or establishing teams and materials for grant planning periods);
- Contribute to research-service learning activities (including leading community engagement projects and developing sustained partnerships with community organizations);

Requirements

Budgets:

We are seeking to make 3 fellowship awards this round. Awards are set at \$25,000 and will be awarded for the 2018 calendar year. Funds can be used for salary, undergraduate and graduate student support, post-doctoral support, course release, equipment, supplies and travel.

Proposal Cover page: PI's name, department, email address, campus address and phone number.

Body of the Proposal

The body of the proposal should not exceed **three single-spaced pages** and should employ a 12-point font size and one-inch margins.

The body of the proposal should address:

1. Your current and past contributions (research and educational) to sustainability.
2. How will your proposed actions and directions tie into and expand beyond your work to date?
3. What is the expected impact within and across disciplines?



4. What unique sustainability perspectives could you bring to enhance the *Current Issues in Sustainability (ENGR-1905)* or *Sustainability Capstone (ENGR-1907)* courses? How will interdisciplinary aspects of your research and teaching lend itself to collaboration with Faculty Fellows in other disciplines?

Appendices

- The PI should include their NSF (or NIH) 2-page CVs.
- Attach Letter(s) of endorsement.

A one-page letter of endorsement from your department chair is required. How the applicant's course load and course schedule would accommodate the sustainability courses should be discussed. If appropriate to the proposal, a letter of support from a community partner organization should also be included.

Important Submission instructions:

Proposals are due October 20, 2017. Files should be emailed to mcsi@pitt.edu and should be named **LastNameFacFellow2018**. Proposals are reviewed by a committee of internal and external advisors.

Reporting Requirements:

Recipients of a seed grant must fulfill the following requirements:

- Three to five PowerPoint slides summarizing the goals and outcome of the work due on December 31, 2018.
- Acknowledgement of MCSI funding in any publications resulting from the work.

Course Descriptions

Current Issues in Sustainability (ENGR 1905)

This course will introduce the core principles of sustainability (i.e. Social, economic, and environmental) from the perspective of several disciplines and research fields. Covering a variety of topics such as urban infrastructure, energy policy and the environment, sustainable water-use, habitat sustainability and biodiversity, the curriculum and schedule are updated annually to reflect advancements in the field of sustainable engineering and science, and to continually incorporate current topics. While the course is primarily taught by the sustainability faculty fellows it will also consist of various guest lectures by sustainability faculty and senior practitioners working throughout the Pittsburgh region. Course assignments will consist of a series of essays and assignments and culminate in a team term project. This is a required course for the undergraduate sustainability certificate and the M.S. in Sustainable Engineering.

Sustainability Capstone (ENGR 1907)

Building upon students' previous experience and skills, this course will focus on enabling interdisciplinary student teams to synthesize comprehensive solutions to complex real-world Sustainability challenges. This is a project-based course. Project topics will be developed in consultation with instructors and sustainability stakeholders. Innovative solutions will require the application of critical thinking and collaboration to resolve. By the end of the course the students will have a deeper understanding of 1) the multi-faceted nature of Sustainability solutions 2) approaches to problem solving across fields and 3) how to communicate sustainable solutions and concepts in an interdisciplinary team environment. This course serves as a capstone course for the Sustainability certificate and M.S. in a Sustainable Engineering degree and is a required course for these two programs.

UNIVERSITY OF
PITTSBURGH

Mascaro Center
for Sustainable Innovation



For Additional Information:

Eric J. Beckman

412-624-4828

beckman@pitt.edu

Gena M. Kovalcik

412-624-9698

gmk9@pitt.edu

David Sanchez

412-624-9793

david.sanchez@pitt.edu

Melissa Bilec

412-648-8075

mbilec@pitt.edu