

Theme: Instructor and Student Curricular System Impact

**Workshop - Engineering Education Funding Programs in the Division of Engineering Education and Centers of the National Science Foundation:  
Making Research Proposals Competitive**



Jumoke O. Ladeji-Osias  
Division of Engineering Education and Centers  
National Science Foundation

Thursday, 1:00 to 2:30 pm

Room: K150

Multiple funding programs at the National Science Foundation (NSF) invest in leading-edge engineering education research that advances our understanding of learning, teaching, equitable participation in engineering, and institutional change at all education levels and in diverse settings. Selecting the NSF program that best fits a proposal's creative ideas and writing a compelling project description are two critical steps in making research proposals competitive. A Program Director from the National Science Foundation Division of Engineering Education and Centers will conduct a two-hour workshop to discuss these critical steps.

The Program Director will provide guidance on NSF engineering education funding broadly, with a focus on opportunities in the Division of Engineering Education and Centers (EEC) which supports fundamental research in engineering education, broadening participation hubs and centers, research experiences for undergraduates and teachers, revolutionary changes to engineering departments, and research centers. Abstracts of selected awards from different programs will be discussed along with funding program solicitations to help participants identify appropriate programs. Workshop attendees will learn about proposal submission and administration processes as well as how to write better proposals. Attendees will leave the workshop with a better understanding of the engineering education research programs at the NSF as well as strategies to improve their proposals. Participants are encouraged to bring a one-page summary of their proposal idea.

Additional information about EEC supported programs can be found here:

<https://www.nsf.gov/funding/programs.jsp?org=EEC>

**About the presenter:**

Dr. J. 'Kemi Ladeji-Osias is a Program Director for Engineering Education in the Engineering Education and Centers (EEC) Division of the Engineering Directorate where she oversees programs focused on the professional formation of engineers. The EEC Engineering Education portfolio includes the Revolutionizing Engineering Departments (IUS/PFE: RED), Research in the Formation of Engineers (RFE) including related CAREER projects and Research Initiation in Engineering Formation (PFE: RIEF) programs. She is on temporary assignment from her position as Professor of Electrical Engineering in the School of Engineering at Morgan State University in Baltimore. She previously served as the Associate Dean for Undergraduate Studies. Dr. Ladeji-Osias earned a B.S. in electrical engineering from the University of Maryland, College Park and a Ph.D. in biomedical engineering jointly from Rutgers University and UMDNJ. Dr. Ladeji-Osias' involvement in engineering curricular innovations includes adapting portable laboratory instrumentation into experiments from multiple STEM disciplines. She enjoys observing the intellectual and professional growth in students as they prepare for engineering careers.