

NSF Overview and Advanced Manufacturing Funding Opportunities

Zhijian (ZJ) Pei

Program Director

Program of Manufacturing Machines and Equipment (MME)

Division of Civil, Mechanical and Manufacturing Innovation (CMMI)

Directorate for Engineering

National Science Foundation

This talk will provide a brief overview of NSF, the Division of Civil, Mechanical and Manufacturing Innovation, the Advanced Manufacturing Cluster, and the Manufacturing Machines and Equipment program. It will also discuss other advanced manufacturing funding opportunities at NSF. A Q&A session will follow, providing a program director's perspectives on how to write competitive NSF proposals.

ZJ Pei is the program director of the Manufacturing Machines and Equipment program at NSF. He is also a professor in the Department of Industrial and Manufacturing Systems Engineering at Kansas State University (KSU). He received his PhD in Mechanical Engineering from University of Illinois at Urbana-Champaign and has four years of industrial experience. He is an ASME Fellow. He has received NSF Director's Award for Excellence Program Director (2015), NSF CAREER award (2004), Commerce Bank Distinguished Graduate Faculty Award (2011, KSU), Iman Outstanding Faculty Award for Research (2013, KSU Alumni Association), Frankenhoff Outstanding Research Award (2008, KSU College of Engineering), and Outstanding Senior Scientist Award (2010, KSU Chapter of Sigma Xi). He serves (and has served) as an associate editor for three journals (Journal of Manufacturing Science and Engineering, Machining Science and Technology, and Journal of Manufacturing Processes) and an editorial board member for seven journals (including International Journal of Machine Tools and Manufacture). He has published more than 140 journal papers, 130 conference papers, three patents, and 10 book chapters. He has graduated 12 PhD students with six of them working in academia and the rest in industry.