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# NSF Programs for Dynamics and Controls Researchers



**Jordan Berg**

*Program Officer,  
Department of Civil,  
Mechanical &  
Manufacturing Innovation,  
US National Science  
Foundation, Alexandria, VA*

## ABSTRACT:

This talk will present an overview of NSF funding opportunities for dynamics and controls researchers, including core programs in the Engineering Directorate, longstanding cross-cutting programs, and recent initiatives.

## BIOGRAPHY:

Jordan M. Berg is a Program Officer in the Directorate of Engineering, Division of Civil, Mechanical and Manufacturing Innovation, at the US National Science Foundation. In 2018 he joined the permanent staff at ENG/CMMI after four years as an IPA rotator. Dr. Berg earned the BSE and MSE in Mechanical & Aerospace Engineering from Princeton University. He was Member Technical Staff in the Attitude Control Analysis group at RCA Astro-Electronics in East Windsor, NJ. He received the PhD in Mechanical Engineering & Mechanics and the MS in Mathematics & Computer Science from Drexel University. He held postdoctoral appointments at the USAF Wright Laboratory in Dayton, OH, and the Institute for Mathematics & Its Applications in Minneapolis, MN. He joined the faculty of Texas Tech University in 1996, where he is now Professor Emeritus of Mechanical Engineering. As a Fulbright Scholar he held visiting faculty appointments at the University of Ruhuna and the University of Peradeniya in Sri Lanka. Dr. Berg is a Fellow of ASME and a Senior Member of IEEE. Dr. Berg's academic background is in the modeling and control of nonlinear systems. His research interests include design, modeling, simulation, and control of micro- and nanosystems, open and closed-loop control of the pull-in bifurcation in electrostatic MEMS, micro- and nanoscale charge and heat transport, geometric analysis and control, and robotics.

Dr. Berg was Treasurer of the American Automatic Control Council from 2008 to the 2014. He was Program Chair of the 2014 ASME DSCD Dynamic Systems and Controls Conference, General Chair of the 2016 IEEE Conference on Advanced Intelligent Mechatronics, and General Chair of the 2018 American Control Conference. He was a member of the Management Committee of the IEEE/ASME Transactions on Mechatronics. He has served as Associate or Technical Editor for the IEEE Transactions on Automatic Control, the ASME Journal of Dynamic Systems, Measurement, and Control, and the IEEE/ASME Transactions on Mechatronics.