

CMMI 18-001

Dear Colleague Letter: Division of Civil, Mechanical, and Manufacturing Innovation (CMMI) in the Directorate for Engineering (ENG) announces a nation-wide search to fill a Program Director position for the Dynamics, Control, and System Diagnostics (DCSD) Program (Open Until Filled)

October 20, 2017

Dear Colleague:

The Division of Civil, Mechanical, and Manufacturing Innovation (CMMI) in the Directorate for Engineering announces a nation-wide search to fill a Program Director position for the Dynamics, Control, and System Diagnostics (DCSD) Program. Formal Considerations will begin on November 1, 2017 and continue until selections are made.

Program Directors have an unparalleled opportunity and responsibility to ensure that NSF-funded research is at the forefront of advancing fundamental knowledge. In support of this, Program Directors are responsible for extensive interaction with academic research communities and industry, as well as interaction with other Federal agencies that may lead to the development of interagency collaborations. Within this context, Program Directors solicit, receive and review research and education proposals, make funding recommendations, administer awards, and undertake interaction with research communities in these fields. They are also responsible for service to Foundation-wide activities and initiatives that together accomplish NSF's strategic goals to: (1) transform the frontiers of science and engineering, (2) stimulate innovation and address societal needs through research and education, and (3) excel as a federal science agency. The position requires a commitment to high standards of intellectualism and ethical conduct, a considerable breadth of interest, receptivity to new ideas, a strong sense of fairness, good judgment, and a high degree of personal integrity. Formal consideration of interested applications will begin November 1, 2017, and will continue until a selection is made with an intended start date of spring 2018.

The DCSD Program supports fundamental research on the modeling, analysis, measurement, monitoring and control of dynamic systems. The program promotes innovation in the following four areas: (1) creation of new mathematical frameworks to apply tools of dynamics to physical systems (modeling), (2) the discovery and exploration of structure in dynamic behavior (analysis), (3) dynamic methods that infer system properties from observations (diagnostics), and (4) methods

that produce desired dynamic behavior (control). The fundamental research supported by the DCSD program must be aligned with the disciplinary thrusts of CMMI.

A description of the DCSD Program is provided on the DCSD web page, https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505182. Inquiries regarding the program can be directed to the Program Directors identified on the program web page.

The DCSD program is a natural complement to both the CMMI Mind, Machine, and Motor Nexus (M3X) program (https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505402) and the cross-directorate National Robotics Initiative (https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503641). As a result, DCSD program directors are also expected to contribute to the intellectual directions and management of proposals for those programs.

Qualifications of a successful candidate include a PhD degree in an appropriate field plus, after award of the PhD, six years or more of successful research, research administration, and/or managerial experience pertinent to the position. The position requires effective oral and written communication skills, and familiarity with NSF programs and activities is highly desirable. The incumbent is expected to function effectively both as an individual within the specific NSF program and as a member of crosscutting and interactive teams. The incumbent must also demonstrate a capability to work across government agencies to promote NSF activities and to leverage program funds through interagency collaborations.

The position may be filled under one of the following appointment alternatives:

Visiting Scientist, Engineer or Educator (VSEE) Appointment: Appointment to this position will be made under the Excepted Authority of the NSF Act. Visiting Scientists are on non-paid leave status from their home institutions and placed on the NSF payroll. NSF withholds Social Security taxes and pays the home institution's contributions to maintain retirement and fringe benefits (i.e., health benefits and life insurance), either directly to the home institutions or to the carrier. Appointments are usually made for a one-year period and may be extended for an additional year by mutual agreement. These positions are eligible for conversion to permanent NSF service.

Temporary Excepted Service Appointment: Appointment to this position will be made under the Excepted Authority of the NSF Act. Candidates who do not have civil service or reinstatement eligibility will not obtain civil service status if selected. Candidates currently in the competitive service will be required to waive competitive civil service rights if selected. Usual civil service benefits (retirement, health benefits, and life insurance) are applicable for appointments of more than one year. Temporary appointments may not exceed three years. These positions are eligible for conversion to permanent NSF service.

Intergovernmental Personnel Act (IPA) Assignment: Individuals eligible for an IPA assignment with a Federal agency include employees of State and local government agencies or institutions of higher education, Indian tribal governments, and other eligible organizations in instances where such assignments would be of mutual benefit to the

organizations involved. The individual remains an employee of the home institution, and NSF provides the negotiated funding toward the assignee's salary and benefits. Initial IPA assignments are made for a one-year period and may be extended by mutual agreement to a maximum of four years total. These positions are ineligible for conversion to permanent NSF service.

For additional information regarding IPA positions, please visit the NSF website at: https://www.nsf.gov/careers/rotator/ipa.jsp.

Applications will be accepted from U.S. Citizens. Recent changes in Federal Appropriations Law require Non-Citizens to meet certain eligibility criteria to be considered. Therefore, Non-Citizens must certify eligibility by signing and attaching this Citizen Affidavit to their application. This also applies to individuals considered for Intergovernmental Personnel Act (IPA) assignments to NSF. Non-citizens who do not provide the affidavit at the time of application will not be considered eligible.

Applicants should indicate in their cover letters that they are applying to the DCSD program and submit their applications including their curriculum vitae via email to:

DCSD Program Director Search Committee
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