Dear Colleague Letter: The Division of Civil, Mechanical and Manufacturing Innovation (CMMI) in the Directorate for Engineering announces a nationwide search to fill the Program Director position for the Civil Infrastructure Systems (CIS) Program.

December 24, 2018

Dear Colleagues:

The Division of Civil, Mechanical and Manufacturing Innovation (CMMI) in the Directorate for Engineering announces a nationwide search to fill the Program Director position for the Civil Infrastructure Systems (CIS) Program.

NSF Program Directors have an unparalleled opportunity and responsibility to ensure that NSF-funded research is at the forefront of advancing fundamental knowledge. Within NSF, they work independently to manage their programs and cooperatively to help foster cross-cutting initiatives, such as those that bridge other NSF programs and directorates. Beyond NSF, Program Directors interact extensively with academic research communities, industry and other government agencies, both in the US and abroad. The CIS program has a long and continuing tradition of productive engagement in all of these activities.

The Civil Infrastructure Systems (CIS) program supports fundamental and innovative research in the design, operation and management of civil infrastructure that contributes to creating smart, sustainable and resilient communities at local, national and international scales. This program focuses on civil infrastructure as a system in which interactions between spatially- and functionally-distributed components and intersystem connections exist. All critical civil infrastructure systems are of interest, including transportation, power, water, pipelines and others. The CIS program encourages potentially disruptive ideas that will open new frontiers and significantly broaden and transform relevant research communities. The program particularly welcomes research that addresses novel system and service design, system integration, big data analytics, and socio-technological-infrastructure connections. The program values diverse theoretical, scientific, mathematical, or computational
contributions from a broad set of disciplines.

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

**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. Initial assignments under IPA provisions may be made for a period up to two years, with a possible extension for up to an additional two-year period. 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. For additional information regarding IPA positions, please visit the NSF website at: https://www.nsf.gov/careers/rotator/ipa.jsp.

**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.

**Visiting Scientist 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 institution 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 institution or to the carrier. Appointments are usually made for a one-year period and may be extended for an additional year by mutual agreement.

**QUALIFICATIONS:**

Candidates must have a Ph.D. in an appropriate engineering field, plus after award of the degree, six or more years of successful research, research administration, and/or managerial experience pertinent to the position.

In addition, familiarity with NSF in general, and the CIS program in particular, is highly desirable, as is experience working in interdisciplinary teams and engaging in civil infrastructure systems research. Effective oral and written communication skills are essential,
as is a strong commitment to the highest standards of ethical conduct. The incumbent is expected to work closely with the NSF Directorate for Social, Behavioral and Economic Sciences and the Directorate for Computer and Information Science and Engineering and should have experience working both independently and in diverse, multidisciplinary teams.

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 Citizenship 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.

INQUIRIES AND APPLICATION

Individuals who are interested in this position should contact the current CIS Program Director, Cynthia Chen (qchen@nsf.gov) with any inquiries.

To apply, email a single PDF document that includes (i) a cover letter outlining qualifications for the position and (ii) a curriculum vitae, (iii) Citizen affidavit, as applicable, to the search committee chair, Jordan Berg (jberg@nsf.gov). Formal consideration of interested applications will begin on January 31, 2019, and will continue until a selection is made. The intended start date is summer 2019.

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