



National Science Foundation
4201 Wilson Boulevard
Arlington, Virginia 22230

CMMI 15-002

Dear Colleague Letter - Division of Civil, Mechanical and Manufacturing Innovation (CMMI), Structural and Architectural Engineering (SAE) Program - Employment Opportunity for Program Director Position (Open Until Filled)

February 9, 2014

Dear Colleagues:

The Division of Civil, Mechanical and Manufacturing Innovation (CMMI) announces a nationwide search to fill the Program Director position for the Structural and Architectural Engineering (SAE) Program. The National Science Foundation (NSF) Program Directors are in charge of specific research areas. They solicit, receive and review research and education proposals, make funding recommendations and administer awards. They are also responsible for interaction with other Federal agencies, forming and guiding interagency collaborations, and for service to Foundation-wide activities.

Formal consideration of interested applications will begin March 1, 2015 and will continue until a selection is made.

NSF Program Directors bear the primary responsibility for carrying out the Foundation's overall mission to support innovative and merit-evaluated activities in fundamental research and education that contribute to the nation's technological strength, security and welfare. The positions require 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.

The Structural and Architectural Engineering (SAE) Program supports fundamental research to advance knowledge and innovation in structural and architectural engineering that enables a holistic approach to design, construction, operation, maintenance, retrofit, repair and end-of-life disposal of structures. For buildings, a holistic approach incorporates the foundation-structure-envelope-nonstructural system, as well as the facade and roofing. Research topics of interest for sustainable structures include: strategies for structures that over their lifecycle are cost-effective, make efficient use of resources and energy, and use of sustainable structural and architectural materials; deterioration due to fatigue and corrosion; serviceability in the case of large deflections and vibrations; and advances in physics-based computational modeling and simulation. Research is encouraged that integrates discoveries from other science and engineering fields, such as materials science, building science, mechanics of materials, dynamic systems and control, reliability, risk analysis, architecture, economics and human factors. The program also supports research in sustainable and holistic foundation-structure-envelope-nonstructural systems and materials.

The successful candidate must demonstrate in-depth expertise in structural engineering and use of structural and architectural materials in buildings as well as understanding of deterioration and serviceability concerns of buildings and other structures. Knowledge of analytical and computer simulation as well as ability to judge integration of other sciences to achieve sustainable structures that can be continuously occupied and remain operational during a structure's useful life is necessary. The successful candidate will also work in a team-based organizational structure as one of three Program

Directors in the CMMI Division's Engineering for Natural Hazards program (http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505177&org=CMMI). In this capacity, the successful candidate must also have in-depth expertise in the design and mitigation of natural hazards to constructed civil infrastructure, such as windstorms, earthquakes and tsunamis.

The SAE program is highly interdisciplinary and participates in several cross-cutting initiatives within the National Science Foundation. Thus, the SAE Program Director will be expected to work both independently and cooperatively as a member of a team-based program structure. Experience working in interdisciplinary teams is highly desired.

Persons wishing to apply for this position are referred to the Divisional web page, <http://www.nsf.gov/div/index.jsp?div=CMMI>, for a description of the program. These persons are also encouraged to contact the current Program Director, who is identified on the program web page, for more information.

Qualifications of a successful candidate include a PhD degree in an appropriate field plus six years or more of successful research subsequent to award of the PhD, and 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 using one of the following appointment alternatives:

Visiting Scientist, Engineer or Educator (VSEE) Appointment: A VSEE appointment 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 as Federal employees. 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 one year and may be extended for an additional year by mutual agreement.

Intergovernmental Personnel Act (IPA) Appointment: Under an IPA appointment, a candidate's home institution receives a grant to cover the appointee's salary and benefits, and the candidate remains an employee of his/her home institution while performing duties at NSF. Persons 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 years.

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 status 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.

For additional information on NSF's rotational programs, please visit: http://www.nsf.gov/about/career_opps/rotators/.

Applications will be accepted from US 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. Non-citizens who do not provide the affidavit at the time of application will be considered as an IPA only.

Applicants should indicate in their cover letter that they are applying to the SAE program. Please submit your application to:

CMMI Program Director Search Committee
Dr. George A. Hazelrigg
Division of Civil, Mechanical and Manufacturing Innovation
Directorate for Engineering
National Science Foundation
Arlington, VA 22230

Electronic applications are preferred. Please submit electronic applications to ghazelri@nsf.gov.

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QUALIFIED STAFF THAT REFLECTS THE DIVERSITY OF OUR NATION.**