



NATIONAL SCIENCE FOUNDATION
4201 WILSON BOULEVARD
ARLINGTON, VIRGINIA 22230

CMMI 15-001

Dear Colleague Letter: Division of Civil, Mechanical and Manufacturing Innovation (CMMI), Mechanics of Materials and Structures (MoMS) – Employment Opportunity for Program Director Positions (Open Until Filled)

December 17, 2014 (Amended)

Dear Colleagues:

The Division of Civil, Mechanical and Manufacturing Innovation (CMMI) announces a nationwide search to fill two Program Director positions for the Mechanics of Materials and Structures (MoMS) program. Program Directors at the National Science Foundation (NSF) are in charge of specific research areas. They solicit, receive and manage the review of 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 two selections are 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 contributes 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 Mechanics of Materials and Structures program supports fundamental research in mechanics as related to the behavior of deformable solid materials and respective structures under internal and external actions. A diverse and interdisciplinary spectrum of research is supported with emphasis on research that leads to advances in i) theory, experimental, and/or computational methods in mechanics, and/or ii) uses contemporary mechanics methods to address modern challenges in materials and structures. Proposed research can focus on existing or emerging materials and structural systems, across time and length scales. The program accepts proposals related to material response, advances in fundamental understanding of deformation, fracture, fatigue, as well as on contact and friction through constitutive modeling, multi-scale (spatial or temporal) and multi-physics analysis, computational methods, or experimental techniques. Research that relates to structural response that lead to advances in the understanding of nonlinear deformation, instability and collapse in the context of large deformation, wave propagation, multi-scale (spatial or temporal) and multi-physics analysis, computational methods, or experimental techniques are also supported. Research at the intersection or considerate of the integration of material and structure is especially welcome.

The successful candidate must demonstrate in-depth expertise in the field of mechanics. The program is highly interdisciplinary and often participates in crosscutting initiatives within the National Science Foundation. Thus, the Program Directors 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 programs. These persons are also encouraged to contact the current Program Director, who is identified on the program web pages, for more information.

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 a team member 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 positions may be filled using one of the following appointment alternatives:

Intergovernmental Personnel Assignment (IPA) Act: 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 institution while performing duties at NSF. 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. Initial IPA assignments may be made for a period up to two years, with a possible extension up to an additional two years by mutual agreement.

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.

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.

For additional information on NSF's rotational programs, please visit "Programs for Scientists, Engineers, and Educators" on the NSF website at: 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 MoMS programs. Please submit your applications 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

Applications may also be submitted electronically. Please make electronic submissions to ghazelri@nsf.gov.

**NSF IS AN EQUAL OPPORTUNITY EMPLOYER COMMITTED TO EMPLOYING
A HIGHLY QUALIFIED STAFF THAT REFLECTS THE DIVERSITY OF OUR NATION**