Dear Colleague:

The Division of Electrical, Communications and Cyber Systems (ECCS), within the Directorate for Engineering at the National Science Foundation, announces a nation-wide search for senior-level engineering researcher to fill an open Program Director position in the Electronic, Photonic, and Magnetic Devices (EPMD) area.

Formal consideration of interested applications will begin February 28, 2019 and will continue until a selection is made. The ECCS Division is looking to fill this position immediately.

NSF Program Directors have the primary responsibility for carrying out the Agency'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. They are also responsible for service to NSF-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 Scientific Federal Agency.

In support of these goals, NSF Program Directors are responsible for extensive interaction with academic research communities and industry, as well as interaction with other Federal agencies. 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. This requires expertise in appropriate disciplines to implement the proposal review and evaluation process for the program, as well as strong skills in written and oral communication. Successful candidates should be receptive to new ideas, have a strong sense of fairness, excellent judgment, and a high degree of personal integrity.
The NSF Division of Electrical, Communications and Cyber Systems (ECCS) supports enabling and transformative research at the nano, micro, and macro scales that fuels progress in engineering system applications with high societal impact. ECCS programs encompass novel electronic, photonic, and magnetic devices — and the integration of these devices into circuit and system environments, intelligent systems, control, and networks — for applications spanning communications and cyber technologies, energy and power, healthcare, environment, transportation, manufacturing, Internet of Things, and other systems-related areas. ECCS also strengthens its programs through links to other areas of engineering, science, industry, government, and international collaborations. In addition, ECCS emphasizes the integration of research and education to ensure the preparation of a diverse and professionally skilled workforce.

The Division is organized around three broad programs: Electronic, Photonic and Magnetic Devices (EPMD); Communications, Circuits, and Sensing Systems (CCSS); and Energy, Power, Control and Networks (EPCN). For further information, please visit the ECCS web site at https://www.nsf.gov/div/index.jsp?org=ECCS.

The EPMD Program is seeking candidates with broad and demonstrated experience to address emerging and innovative engineering research in the areas of nanoelectronics and next-generation devices; advanced semiconductor and metamaterials-based devices and components; heterogeneous integration for new electronic device functionalities; high frequency electronics; devices based on novel materials such as two-dimensional semiconductors; device and component simulation and modeling; and related areas.

The Program Director position recruited under this announcement may be filled under the following rotational programs:

**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.
**Intergovernmental Personnel Assignment (IPA) Act:** 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.

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

In addition, demonstrated vision and leadership to identify and support long-term research and education that contributes to the mission of the ECCS Division and NSF are desirable.

This position is an unparalleled opportunity to ensure NSF funded research is at the forefront of advancing engineering research and education. The individual will work with other NSF Program Directors in formulating research strategies, developing collaboration and cooperation across the Foundation and among government, academe and industry, fostering outreach to underrepresented groups, and providing leadership within NSF and the engineering community.

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.

For additional information on NSF's rotational programs, please see "Programs for Scientists, Engineers, and Educators" on the NSF website at: [https://www.nsf.gov/careers/](https://www.nsf.gov/careers/).

To apply, email a single PDF document that includes (1) a cover letter outlining qualifications for the position and (2) a curriculum vitae, (3) Citizen affidavit, as applicable, to:

Carmiña Londoño, PhD  
Deputy Division Director  
Division of Electrical, Communications and Cyber Systems (ECCS)  
National Science Foundation  
Phone: (703) 292-8339
NSF IS AN EQUAL OPPORTUNITY EMPLOYER COMMITTED TO EMPLOYING A HIGHLY QUALIFIED STAFF THAT REFLECTS THE DIVERSITY OF OUR NATION.