



National Science Foundation

4201 Wilson Boulevard
Arlington, Virginia 22230

Title: The Division of Electrical, Communications and Cyber Systems (ECCS)
Program Director Employment Opportunities in Communications Systems

Dear Colleague Letter
April 9, 2007

Dear Colleagues,

The Division of Electrical, Communications and Cyber Systems (ECCS) announce a nationwide search for a senior-level engineering researcher to serve as Program Director for the Communications Systems area within the Integrative, Hybrid and Complex Systems (IHCS) program, at the National Science Foundation (NSF). The desired starting date for the position is August 1, 2007.

The ECCS Division addresses fundamental research issues underlying component and device technologies, power and energy, controls, computation, networks, communications and cyber technologies, and supports the integration and networking of intelligent systems principles at the nano, micro and macro scales for a variety of application domains in healthcare, homeland security, disaster mitigation, energy, telecommunications, environment, transportation, manufacturing, and other systems-related areas. ECCS envisions a research community that will address major technological challenges for the next generation of devices and systems due to convergence of technologies and increased emphasis on interdisciplinary research. ECCS has a continuing goal to integrate education into its programs to ensure education of a diverse workforce in the 21st century that will continue innovative advances for the rapid development of emerging technologies as drivers of the global economy.

The ECS Division is organized around three programs:

- Electronics, Photonics and Device Technologies ([EPDT](#))
- Power, Controls and Adaptive Networks ([PCAN](#))
- Integrative, Hybrid and Complex Systems ([IHCS](#))

The management of these programs involves a team approach by Program Directors of the ECCS Division, to reflect the increasing convergence of traditional disciplinary topics and the need for interdisciplinary approaches to new problem areas. In addition to these program areas, ECCS sponsors workshops on areas of frontier and innovative technologies, which often lead to special program initiatives. Please visit the ECCS web site at <http://www.nsf.gov/div/index.jsp?div=ECCS>.

This Program Director opening is in the area of communications systems within the IHCS program. The IHCS program has supported research on seamless integration of optical, wired and RF/microwave/millimeter wave wireless systems and technologies for continued growth of bandwidth, and secure information for national needs in a globally connected society. The candidate for this position should have broad expertise and specific demonstrated experience in optical, microwave, millimeter wave devices or sub-systems for Optical and Wireless Communications Systems. The Program Director should have knowledge in integration technologies including combination of components, sub-system and system functions, chip-level assemblies, and other schemes targeted to communications systems applications and packaging, with improved performance, reduced component size and new functionalities to address solutions to existing discontinuities in hybrid systems and their effects upon overall system performance.

Program Director positions at the National Science Foundation provide a challenging experience and an excellent opportunity to encourage and support engineering research and education. The individual will work with other Program Directors in formulating research strategies, developing cooperation among government, academia and industry, fostering outreach to underrepresented groups, and providing leadership within NSF and the research community. The position requires a Ph.D. with a minimum of six years of academic, government or industrial experience.

The Program Director position recruited under this announcement may be filled under the following appointment options:

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 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 up to two additional years.

Visiting Scientist Engineering Educator. Appointment to this position will be made under the Excepted Authority of the NSF Act. A Visiting Scientist is on non-paid leave status from the home institution and appointed to NSF's payroll as a Federal employee. 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 up to one year and may be extended by mutual agreement for up to an additional year.

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, life insurance) are applicable for appointments of more than one year. Temporary appointment may not exceed three years.

For additional information on NSF's rotational programs, please see "Programs for Scientists, Engineers, and Educators" on the NSF website at http://www.nsf.gov/about/career_opps.

Should you or your colleagues be interested in this position, or wish to nominate suitable candidates, please contact the search committee coordinator, Dr. Radhakishan Baheti, Search Committee Coordinator (rbaheti@nsf.gov), and forward curriculum vitae to him by July 1, 2007. Applications will be reviewed immediately after this date, though the position will remain open until filled. For questions or further information, please feel free to contact:

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