National Science Foundation
Excepted Position Vacancy

ANNOUNCEMENT NO: E20060120   **OPEN:** 08/07/2006   **CLOSE:** 10/06/2006

THIS IS A PERMANENT POSITION.

Individuals wishing to be considered for a one or two-year Visiting Scientist, Intergovernmental Personnel Act (IPA), or Temporary appointment should apply under Vacancy Announcement E20060121.

POSITION VACANT: Computer Scientist (Program Director), AD-1550-4. Annual salary ranges from $91,407 to $ 142,449.

PROMOTION POTENTIAL: Computer Scientist (Program Director), AD-1550-4

LOCATION: Directorate for Computer & Information Science & Engineering, Division of Computer & Network Systems (CNS) in the Network Systems (Nets) Cluster, Computer Systems Research (CSR) Cluster or Education and Workforce (EWF) Cluster, Arlington, VA.

RELOCATION: Expenses will **NOT** be paid.

BARGAINING UNIT STATUS: This position is included in the bargaining unit and will be filled in accordance with the merit staffing provisions of the Collective Bargaining Agreement Article VIII.

AREA OF CONSIDERATION: All Sources

THIS POSITION IS OUTSIDE THE COMPETITIVE CIVIL SERVICE

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. Disabled veterans with 30% service-connected disabilities as well as other applicants with severe disabilities will be considered without regard to the closing date if applications are received prior to final selection.

DUTIES AND RESPONSIBILITIES: As Program Director, directs in the implementation, review, funding, post-award management, and evaluation of the program and contributes to the intellectual integration with other programs supported by the Division. Coordinates the division's scientific goals, objectives and priorities, integration of scientific, technical, and educational priorities into effective program policies, strategies, their implementation, and evaluation procedures. Additional activities will include managing relevant components of the Network Systems (Nets), Computer Systems Research (CSR) and Education and Workforce (EWF) clusters and Special Projects topics, outreach, and program planning and dissemination for all related projects. Designs and implements the proposal review and evaluation process for relevant proposals. Selects well qualified individuals to provide objective reviews on proposals either as individuals or as members of a panel. Conducts final review of proposals and evaluations, and recommends acceptance or declination. Manages and monitors on-going grants, contracts, interagency and cooperative agreements to ensure fulfillment of commitments to NSF. Evaluates progress of awards through review and evaluation of reports and publications submitted by awardees and/or meetings at NSF and during site visits. Contributes to the responsibility for establishing goals and objectives, initiating new

program thrusts and phasing out old projects. Recommends new or revised policies and plans in scientific, fiscal, and administrative matters to improve the activities and management of the Program.

Division of Computer & Network Systems (CNS) supports research and education activities that invent new computing and networking technologies and that explore new ways to make use of existing technologies. The Division seeks to develop a better understanding of the fundamental properties of computer and network systems and to create better abstractions and tools for designing, building, analyzing, and measuring future systems. CNS projects also support the computing infrastructure that is required for experimental computer science, and it coordinates cross-divisional activities that foster the integration of research, education, and workforce development.

The Nets cluster (http://www.nsf.gov/pubs/2005/nsf05505/nsf05505.htm) covers a broad range of topics summarized under the headings of research and education activities in networking technology and systems. Its goals are to sustain the science and technology needed to create next-generation networks as well as to address the limitations of existing networks. Topical areas of current interest include projects to create next-generation networks, increase fundamental understanding of large and complex heterogeneous networks, and continue the evolution of the network by overcoming existing limitations and by adding new capabilities and services. Targeted focus areas are programmable wireless networks, which seek to exploit the capabilities of programmable radios to make more effective use of the frequency spectrum and to improve wireless network connectivity; and networking of sensor systems, which seeks to create architectures, tools, algorithms, and systems that will make it easy to assemble and configure a network of sensor systems.

The CSR cluster (http://www.nsf.gov/pubs/2004/nsf04609/nsf04609.htm) covers a broad range of topics summarized under the headings of embedded and hybrid systems, parallel and distributed operating systems, advanced execution systems, and systems modeling and analysis.   Projects may range in size from single investigators to teams of several investigators. This cluster supports research and education activities that address these requirements in a variety of systems, including distributed, mobile, and embedded systems; sensing and control systems; dynamically configured, multiple-component systems; parallel systems; and trusted systems.

The EWF cluster supports projects that integrate research and education across CISE, study the causes of the current lack of diversity in the information technology workforce, and lead to a broadening of participation by all under-represented groups. To achieve these goals, the cluster works closely with all CISE divisions. It also coordinates the participation by CISE in a portfolio of NSF-wide education and workforce programs.

QUALIFICATIONS REQUIRED: Applicants must have a Ph.D. or equivalent experience in computer science, computer engineering, computational science, communication, information science, or allied disciplines, and significant experience in education. In addition, six or more years of successful research, research administration, and/or managerial experience pertinent to the program is required.

QUALITY RANKING FACTORS: Final ranking is based upon an evaluation of your job-related experience, education, training, awards, performance appraisals or letters of recommendation, as demonstrating the following knowledge, skills, and abilities:

- Knowledge of computer science, computer engineering, computational science, communication, information scien or allied disciplines, and significant experience in education.

- Skill in gathering scientific information and communicating both orally and in writing with representatives from the scientific and/or engineering community.

- Skill in conducting scientific/technical analyses of proposals, and conducting final review of proposals and evaluat to recommend awards and declinations based on scientific merit, and evaluation of the availability of resources.

- Ability to manage; monitor grants, contracts, and cooperative agreements to ensure fulfillment of commitments; an provide guidance to program staff, as well as provide oversight and program management.

- Skill in preparing program budget and operating requirements and in serving in a lead capacity for coordinating a budget request plan.

CONDITIONS OF EMPLOYMENT: Appointment to the position is contingent upon successful completion of the appropriate background investigation. Satisfactory completion of a one-year trial period may also be required.

HOW TO APPLY: You may apply for this position with the *Optional Application for Federal Employment* (OF-612), the older *Application for Federal Employment* (SF-171), a resume, or other application format of your choice - so long as it contains the necessary information (summarized below). You must also submit a current Performance Appraisal or letter(s) of recommendation from professionals who can comment on your capabilities. In order to ensure full consideration, it is recommended that you submit a supplemental statement which specifically addresses how your background and experience relate to each **Quality Ranking Factor** listed on this announcement.

You must specify the job announcement number, and title and grade(s) of the job for which you are applying. You should also provide the following information: ⬥ Your country of citizenship. ⬥ Your social security number**.** ⬥ Information about your education, including (1) high school graduation date and (2) college/university information - your major, and type and year of degree(s). If no degree, show total credits earned and indicate whether they are semester or quarter hours. ⬥ Information about all your work experience related to this job, including job titles, duties and accomplishments, employer's name and phone number, number of hours worked per week, starting and ending dates (month and year), and annual salary. If you held various positions with the same employer, describe each separately. ⬥ If you have Federal civilian experience, indicate the highest grade held, the job series, and dates held. ⬥ The brochure *Applying for a Federal Job* provides information on the Federal job application process; it is available by calling the number listed below. **If your application does not provide all the information requested in the vacancy announcement, you may lose consideration for this job.**

The National Science Foundation provides reasonable accommodations to applicants with disabilities on a case-by-case basis. If you need a reasonable accommodation for any part of the application and hiring process, please notify the point of contact listed on this vacancy announcement.

You may submit your application via e-mail to mloyd@nsf.gov submit all application material to National Science Foundation, Division of Human Resource Management, 4201 Wilson Boulevard, Room 315, Arlington, VA 22230. Attn: Announcement Number **E20060120**. In addition to the required application materials, you are asked to complete and submit the attached Applicant Survey form. Submission of this form is voluntary and will not affect your application for employment. The information is used for statistical purposes only. **ALL RESUMES MUST BE RECEIVED BEFORE MIDNIGHT EASTERN TIME ON THE CLOSING DATE OF THIS ANNOUNCEMENT.** For additional information call Myra Loyd, on (703) 292-4363. Hearing impaired individuals may call TDD (703) 292-8044.

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

Vacancy Ann. #:_____   Position Status (temporary/permanent):_____

Position Title/Series/Grade:_____

INSTRUCTIONS

Your completion of this form will be appreciated. Submission of this Information is voluntary and it will have no effect on the processing of your application. The data collected will be used only for statistical purposes to ensure that agency personnel practices meet the requirements of Federal law. Pursuant to 5 CFR 1320.5(b), an agency may not conduct or sponsor, and a person is not required to respond to an information collection unless it displays a valid OMB control number. The OMB control number for this collection is 3145-0096.   NSF estimates that each respondent should take about 3 minutes to complete this survey, including time to read the instructions. You may have comments regarding this burden estimate or any other aspect of this survey, including suggestions for reducing this burden. If so, please send them to NSF Reports Clearance Officer, Division of Administrative Services, NSF, 4201 Wilson Blvd., Arlington, VA. 22230.

PRIVACY ACT INFORMATION
GENERAL - This information is provided pursuant to Public Law 93-579 (Privacy Act of 1974), December 31, 1974, for individuals completing Federal records and forms that solicit personal information.
 AUTHORITY - Section 7201 of title 5 of the U.S. Code and Section 2000e-16 of title 42 of the U.S. Code.

PURPOSE AND ROUTINE USES
The information is used for research and for a Federal Equal Opportunity Recruitment Program (FEORP) to help insure that agency personnel practices meet the requirements of Federal law. Address questions concerning this form and its uses to the Privacy Act Officer, National Science Foundation, Arlington, VA 22230.

---

1. Today's Date:_____   2. Year of Birth:_____

3. How did you learn about the particular position for which you are applying? (Circle appropriate number.)

01 - Newspaper (specify)_____	10 - Federal, State or local job information center
02 - Contact with NSF Personnel Office	11 - State vocational rehabilitation agency or
(Agency Bulletin Board or other Announcement)	Veterans Administration
03 - NSF-initiated personal contact	12 - State employment office
04 - Science Magazine, or other professional journal or magazine	13 - School or college counselor or other official
(specify)_____	14 - Private job Information service
05 - Affirmative Action Register	15 - Private employment service
06 - Attendance at conference, meeting or job fair	16 - Friend or relative working at NSF
(specify)_____	17 - Friend or relative not working at NSF
07 - NSF recruitment at school or college	18 – NSF website
08 - Colleague referral	19 – Internet or other website
09 - NSF Bulletin	20 - Other (specify)_____

4. Select the ethnic category with which you most closely identify:
   A. **Hispanic or Latino**. A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race.
   B. **Not Hispanic or Latino**.

5. Select one or more racial category with which you most closely identify:
   A. American Indian or Alaska Native. A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.
   B. Asian. A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.
   C. Black or African American. A person having origins in any of the black racial groups of Africa.
   D. Native Hawaiian or Other Pacific Islander. A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.
   E. White. A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

6. Sex (Circle the appropriate letter.)   F - Female   M - Male

7. Please provide Information on your disability status by circling the appropriate category below:

 1. I do not have a disability; 2. Hearing impairment; 3. Vision impairment; 4. Missing extremities; 5. Partial paralysis;
 6. Complete paralysis; 7. Convulsive disorder; 8. Mental retardation; 9. Mental or emotional illness; 10.Severe distortion of limbs and/or spine; 11.I have a disability but it is not listed.

....
FOR AGENCY USE

Agency Code:_____

AN EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER

NSF Form 1232