



National Science Foundation

Excepted Position Vacancy

ANNOUNCEMENT NO: E20050034

OPEN: 1/12/05

CLOSE: 1/27/05

THIS IS A PERMANENT POSITION.

POSITION VACANT: Civil Engineer (Program Director) AD-810-4. Annual salary ranges from \$88,369 to \$137,713.

LOCATION: Directorate for Engineering, Division of Civil and Mechanical Systems (CMS), GeoEngineering Systems (GES), Arlington, VA.

BARGAINING UNIT STATUS: This position is included in the bargaining unit and will be filled in accordance with the Merit Promotion Plan described in NSF Manual 14 (PER II-100).

AREA OF CONSIDERATION: All Sources.

RELOCATION: Expenses will be paid.

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.

DUTIES AND RESPONSIBILITIES:

The Civil and Mechanical Systems (CMS) Division within the Directorate for Engineering (ENG) at the National Science Foundation (NSF) announces a nationwide search for an engineering professional to fill the following position: **Program Director - GeoEngineering Systems (GES) program**. Information about the CMS Division is available at <http://www.eng.nsf.gov/cms>. The GES program within CMS combines the existing Geomechanics and Geotechnical Systems (GGS) and Geoenvironmental Engineering and GeoHazards Mitigation (GEH) program elements within CMS. The GES program supports research to advance fundamental engineering knowledge for predicting the performance of geosystemic systems and behavior of geomaterials; forecasting and mitigating geohazards; modeling and verification of material behavior and system response; innovative technologies for remediation and containment of contamination; and non-destructive and in situ evaluation of geologic conditions. The research portfolio for the GGS program element includes projects on geomechanics, geotechnical engineering, problem soils, weak rocks, rock mechanics, and rock engineering. Support is given for research that will increase the fundamental knowledge for predicting the performance of geosystemic systems, including foundations, sloped, excavations, underground openings, and other geosystemic structures, such as soil and rock improvement technologies and reinforcement systems; modeling material behavior, scale effects and model verification in geomechanics, including the transferability of laboratory results to field scale; and non-destructive, remote, and in situ evaluation of soil and rock properties.

The research portfolio for the GEH program element includes projects on geoenvironmental engineering, including physical, chemical, thermal, and biological processes that affect the properties and performance of geologic materials; and innovative technologies for remediation and containment of contamination. The GEH program also supports research in geological engineering and engineering geology as related to forecasting and mitigating geohazards, geotechnical earthquake engineering and strong ground motions, tsunamis (both earthquake and non-earthquake generated), mechanics of erosion and scouring, landslides, and debris flows. The Program Director for the GES program is also expected to provide GeoEngineering program leadership for and actively participate in the George E. Brown, Jr. Network for Earthquake Engineering Simulation Research program within CMS.

NSF Program Directors are responsible for providing stewardship of integrated research and education both in a discipline and across disciplines within the context of agency vision, mission, and goals, and within the framework of guiding legislation and agency policies and resources. While disciplinary expertise will be expected, the focus of the search is to identify a scholarly, mentoring and open-minded person who can function both within specific program boundaries, as well as in a team mode, contributing to and coordinating with virtual organizations in the ENG Directorate, across the Foundation, and with other Federal and State government agencies and private sector organizations as necessary. Periodic appointments to leadership positions of interdivisional, interdirectorate and interagency programs may be made. NSF is particularly interested in attracting women and under-represented minority candidates for this position.

QUALIFICATIONS REQUIRED: Applicants must possess a Ph.D. or equivalent professional experience in engineering. In addition, the applicant must have at least six years of experience conducting and managing research in geotechnical engineering and geotechnical earthquake engineering, and at least two years of experience running a proposal-driven competitive grant program at the Federal Government level.

QUALITY RANKING FACTORS:

1. Knowledge and understanding of research directions and literature in the broad area of GeoEngineering with particular emphasis on geotechnical engineering and geotechnical earthquake engineering, and sufficient background in other geohazard research areas to manage a research program that includes all geohazards.
2. Research, analytical, and writing skills which evidence the ability to make sound scholarly judgments, master a wide variety of theoretical and methodological approaches to research, and explain in writing recommendations and decisions based on findings.
3. Ability to organize, implement and manage a Federal proposal-driven engineering grant program, allocating resources effectively to meet a broad spectrum of program goals.
4. Ability to cooperate and work effectively with peers in other engineering and scientific disciplines on joint ventures and to present and advocate program plans and policies to individuals in the Foundation, other government agencies, academic institutions, private sector organizations, and the GeoEngineering academic research community.

BASIS FOR RATING: Final ranking is based on an evaluation of your experience, education and training as they relate to the knowledge, skills and abilities specified in the Quality Ranking Factors. Current performance appraisal, letter(s) of recommendation, and awards may also be used in the evaluation process.

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.

Submit all application material to National Science Foundation, Division of Human Resource Management, 4201 Wilson Boulevard, Room 315, Arlington, VA 22230. Attn: Announcement Number **E20050034**. 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 FORMS MUST BE RECEIVED BY THE CLOSING DATE OF THIS ANNOUNCEMENT.** For additional information call Myra Loyd, on (703) 292-4363. For technical information, contact Joy Pauschke on (703) 292-8360. Hearing impaired individuals may call TDD (703) 292-8044.

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

NATIONAL SCIENCE FOUNDATION
APPLICANT SURVEY

OMB No. 3145-0096
Expiration: 7/31/2005

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