NRC FORM 114
(5-90)
NRCM 4108

U.S. NUCLEAR REGULATORY COMMISSION

# CAREER OPPORTUNITY ANNOUNCEMENT

DO NOT REMOVE POSTING

AN EQUAL OPPORTUNITY EMPLOYER, CANDIDATES WILL BE CONSIDERED WITHOUT DISCRIMINATION FOR ANY NONMERIT REASON SUCH AS RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, POLITICAL AFFILIATION, MARITAL STATUS, PHYSICAL OR MENTAL HANDICAPS, AGE, OR MEMBERSHIP IN AN EMPLOYEE ORGANIZATION.

| POSITION TITLE | ANNOUNCEMENT NUMBER | DATES: OPENING | CLOSING (Close of business) | EXPIRATION (For "Open Until Filled" vacancies remove posting on this date) |
|---|---|---|---|---|
| Materials Engineer | 0153017 | 08/14/01 | O-U-F | 11/16/01 |

| SERIES | GRADE | KNOWN PROMOTION POTENTIAL TO |
|---|---|---|
| 0806 | GG-14 | GG-14 |

ORGANIZATION LOCATION

Office of Nuclear Regulatory Research
Division of Engineering Technology
Materials Engineering Branch

AREA OF CONSIDERATION

- [X] NATIONWIDE
- [ ] WASHINGTON, DC COMMUTING AREA
- [ ] REGION COMMUTING AREA
- [ ] OTHER

TYPE OF POSITION

- [X] BARGAINING UNIT
- [ ] NONBARGAINING UNIT
- [X] FULL-TIME
- [ ] PART-TIME
- [X] PERMANENT APPOINTMENT
- [ ] TEMPORARY APPOINTMENT NOT TO EXCEED
- [ ] INCUMBENT IS SUBJECT TO RANDOM DRUG TESTING

| DUTY LOCATION | TRAVEL REQUIREMENTS | NAME OF IMMEDIATE SUPERVISOR |
|---|---|---|
| Rockville, MD | 25 percent | Nilesh C. Chokshi |

APPLICATION INSTRUCTIONS: COMPLETE AND SUBMIT THE FOLLOWING TO THE ADDRESS SPECIFIED AT THE BOTTOM OF THIS PAGE. *(Use the Vacancy Announcement Number in all correspondence.)*

1. AN UPDATED SF171 PERSONAL QUALIFICATIONS STATEMENT OR APPLICATION FOR GOVERNMENT EMPLOYMENT OR RESUME
2. AN NRC FORM 115, VACANCY APPLICATION STATUS NOTICE *(NRC applicants only)*;
3. A COPY OF YOUR CURRENT PERFORMANCE APPRAISAL OR A SIGNED STATEMENT THAT IT IS NOT AVAILABLE.
4. NRC APPLICANTS(ONLY); FOUR COPIES OF APPLICATION MATERIALS REQUESTED.
5. THE NRC IS A ZERO-TOLERANCE AGENCY WITH RESPECT TO ILLEGAL DRUG USE.
6. OTHER (Specify):

NOTICE. APPLICATIONS MAY BE REFERRED TO THE RATING ENTITY A MINIMUM OF SIXTEEN (16) CALENDAR DAYS AFTER OPENING DATE

NONBARGAINING UNIT POSITIONS ONLY. CANDIDATES WHOSE PRESENT PROMOTION POTENTIAL DOES NOT EXCEED THE POTENTIAL OF THIS VACANCY MAY NOT BE SUBJECT TO RATING PROCEDURES AND MAY *BE REFERRED DIRECTLY TO THE SELECTING OFFICIAL*

DUTIES OF POSITION *(If this position is announced at multiple grade levels, these duties describe the full performance level; at lower grade levels the duties may very slightly and will be performed under somewhat closer supervision.)*

NOTE: SELECTING OFFICIAL MAY REQUEST CERTIFICATE OF ELIGIBLES WITHIN 16 DAYS OF OPENING DATE OF ANNOUNCEMENT.

Serves as materials engineer responsible for planning, organizing, directing, coordinating and conducting assigned research efforts associated primarily with environmentally-assisted cracking of the nuclear reactor primary systems. Familiarity with environmental effects,

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QUALIFICATIONS REQUIRED *(If the position is announced at multiple grade levels, these qualifications describe the full performance level, unless otherwise specified. The position description, immediate supervisor, and/or NRC Manual chapter and Appendix 4108 can be consulted for more detailed qualification requirements and/or interpretation of qualifying experience.)*

Candidates may meet the basic qualfications required by:

(1) Having at least one year of experience at the next lower grade level in the occupational series listed above or in another series performing like or similar duties; OR

(2) Possessing knowledge of the theory, principles and practices in the

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RATING FACTORS *(Applicants are strongly encouraged to submit a statement addressing the Rating listed below.)*

ALL CANDIDATES MUST ADDRESS THE FOLLOWING RATING FACTORS:

1. Thorough knowledge of environmental effects, materials behavior, irradiation effects, and general knowledge of structural and fracture mechanics, particularly as applied to commercial nuclear power plants.

(EXAMPLE: Describe specific work experience, education and training that

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| FOR ADDITIONAL INFORMATION CONTACT | TELEPHONE AREA CODE | NUMBER |
|---|---|---|
| Kathy Schmidt EMail: KAS Mail Stop: T2D32 | 301 | 415-6975 |

SEND APPLICATION MATERIALS TO:

| [X] Human Resources Services & Operations Office of Human Resources | [ ] Region I Personnel Officer | [ ] Region II Personnel Officer | [ ] Region III Personnel Officer | [ ] Region IV Personnel Officer |
|---|---|---|---|---|
| U.S. Nuclear Regulatory Commission Washington, D.C. 20555 | U.S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, PA 19406 | U.S. Nuclear Regulatory Commission 61 Forsyth Street, SW (23T85) Atlanta, GA 30303 | U.S. Nuclear Regulatory Commission 801 Warrenville Road Lisle, IL 60532 | U.S. Nuclear Regulatory Commission 611 Ryan Plaza Drive, Suite 400 Arlington, TX 76011 |

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DUTIES OF POSITION - CONTINUED

metallurgy, materials behavior, irradiation effects, and structural integrity of the reactor primary system components in order to determine the effectiveness, and improve, as necessary, the NRC licensing requirements and codes for metallurgical and structural mechanics aspects of the primary system of commercial nuclear power plants. Develops corresponding regulatory guides, codes, and standards to implement research findings.

QUALIFICATIONS REQUIRED - CONTINUED

field of materials engineering as demonstrated by a degree in materials engineering, physical science, or related major field of study, or an equivalent combination of education, training and experience.

All candidates must also have at least one year of specialized experience at the next lower grade level or equivalent that demonstrates knowledge of environmental effects, metallurgy, irradiation effects, fatigue, and fracture mechanics.

RATING FACTORS - CONTINUED

demonstrates a thorough knowledge of environmental effects, materials behavior, irradiation effects, and general understanding of structural and fracture mechanics, as applied to nuclear power plants. Provide specific examples of work assignments and products that required you to apply the theories, principles and practices in these areas.)

2. Demonstrated knowledge and experience in materials engineering as applied to design analyses, or research and development for commercial nuclear reactor materials, or similar applications.

(EXAMPLE: Describe specific work experience, education and training that indicates your knowledge of metallurgy, welding, other fabrication processes, materials behavior, fatigue, and fracture mechanics. Demonstrate your knowledge of applicable consensus codes and standards in these technical areas.)

3. Demonstrated ability to anticipate problem areas and develop research programs leading to their resolution.

(EXAMPLE: Provide examples of relevant research programs you have developed and managed, with a focus on identification of problem areas and processes used to achieve resolution.)

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RATING FACTORS - CONTINUED

4. Demonstrated ability to independently plan, direct, and manage complex, highly technical research contracts.

(EXAMPLE: Describe specific experience, education and training that demonstrates your ability to manage complex technical research contracts. Describe your specific role in the oversight and direction of the contracts.)

5. Demonstrated ability to communicate complex technical issues, both orally and in writing.

(EXAMPLE: This rating factor encompasses evidence of presentations at *technical meetings, conferences or symposia, both nationally and* internationally. Describe the kinds of written products you have originated and oral presentations you have made, to whom and for what purpose. Describe work assignments that demonstrate your ability to communicate technical objectives, results, and findings of research studies and programs. Attach samples of written articles in journals, or technical reports.)

NOTE: Breadth, recency, and length of experience in the field; training, awards and commendations; past and current performance; and community or outside professional activities will be considered as they relate to each of the above factors to determine the level of knowledge, skill or ability of candidates.

RECRUITMENT BONUS MAY BE PAID.

PLEASE SUBMIT RESUME OR OF-612; STATEMENT ADDRESSING RATING FACTORS; AND YOUR MOST RECENT PERFORMANCE APPRAISAL TO:

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF HUMAN RESOURCES
ATTN: KATHERINE SCHMIDT
MAIL STOP T 2 D-32
WASHINGTON, DC 20555

If claiming 5-point veterans' preference, you must attach a copy of your DD-214, Certificate of Release or Discharge from Active Duty, or other *proof of eligibility. If claiming 10-point veterans' preference you must* attach an SF-15, Application for 10-Point Veterans' Preference, plus the proof required by that form.

Current/reinstatement eligible Federal employees with status (tenure group 1 or 2) will be considered through merit promotion procedures under this announcement and must submit a copy of an SF-50 (Notification of

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RATING FACTORS - CONTINUED

Personnel Action) to verify competitive status or reinstatement eligibility. PLEASE NOTE: NRC employees do not have to submit an SF-50. Status applicants, both NRC employees and others, who wish to be considered under both merit promotion and competitive procedures must submit two (2) complete application packages. If only one application is received, it will be considered under the merit promotion announcement only.

REASONABLE ACCOMMODATIONS WILL BE MADE FOR QUALIFIED APPLICANTS OR EMPLOYEES WITH DISABILITIES, EXCEPT WHEN DOING SO WOULD POSE AN UNDUE HARDSHIP ON THE AGENCY.

EXECUTIVE AGENCIES ARE PROHIBITED FROM ACCEPTING OR CONSIDERING APPLICANTS FOR COMPETITIVE APPOINTMENTS OR POSITIONS BASED ON POLITICAL RECOMMENDATIONS FROM MEMBERS OF CONGRESS, CONGRESSIONAL EMPLOYEES, ELECTED STATE OR LOCAL GOVERNMENT OFFICIALS, AND POLITICAL PARTY OFFICIALS. SUCH OFFICIALS MAY ONLY SUPPLY STATEMENTS REGARDING THE CHARACTER AND RESIDENCE OF THE APPLICANT.