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 Filed" vacancies remove posting on this date)
REACTOR SYSTEM ENGINEER	0153023	09/17/01	O-U-F	12/29/01

SERIES	GRADE	KNOWN PROMOTION POTENTIAL TO
0801	GG-13	GG-13

ORGANIZATION LOCATION

OFFICE OF NUCLEAR REGULATORY RESEARCH
DIV OF SYSTEM ANALYSIS & REG. EFFECT.
SAFETY MARGINS & SYSTEMS ANALYSIS BR.

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	Occasional	JACK ROSENTHAL

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.)*

As Reactor Systems Engineer, performs analytical studies in safety research and develops analytical codes and tools, as well as the computing environment, to perform such studies. Assists in the coordination, planning, development, and technical direction of safety research programs.

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 qualifications 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 a knowledge of the theory, principles, and practices in a field of nuclear, chemical, mechanical, or related field of engineering, as evidenced by a degree in one of such fields, or an equivalent

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

1. Broad knowledge of the theories, principles and practices in the field of nuclear, chemical or mechanical engineering or specialized knowledge and experience in the area of thermal-hydraulics and reactor physics code development and maintenance, multi-phase flow, heat and mass transfer.

(EXAMPLE: Describe specific work experiences which illustrate your

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FOR ADDITIONAL INFORMATION CONTACT	TELEPHONE AREA CODE	NUMBER
KATHERINE SCHMIDT EMail: KAS Mail Stop: T 2D32	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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(Continuation)

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QUALIFICATIONS REQUIRED - CONTINUED

combination of education and experience; AND

All candidates must also have specialized experience in the area of thermal-hydraulics and reactor physics code development and maintenance. At least one year of this experience must have been at the next lower grade level or equivalent.

RATING FACTORS - CONTINUED

knowledge of general engineering principles as related to thermal-hydraulic and reactor physics code development and maintenance, multi-phase flow, heat and mass transfer and related modeling associated with plant transient analysis.)

2. Demonstrated experience in the application of the principles, theories and practices of multi-phase flow, reactor physics, and heat and mass transfer as applied to practical problems such as the analysis of plant transients using systems codes, and the development and maintenance of such codes.

(EXAMPLE: Describe specific work experience which demonstrates your knowledge of system analysis codes used in the analysis of nuclear power plants' behavior under accident and transient conditions.)

3. Ability to technically direct and coordinate safety research programs, provide technical review and analysis of research products, and manage research programs in a cost effective manner.

(EXAMPLE: Provide examples of research programs which required your technical oversight and direction and fiscal management and coordination. Describe your specific role in the oversight, direction and fiscal management of these projects.)

4. Ability to independently execute technical studies of issues related to reactor safety studies utilizing thermal-hydraulic and reactor physics.

(EXAMPLE: Provide examples of relevant studies you have performed, including studies where you have used complex computer codes to analyze plant transient analysis.)

5. Ability to communicate clearly, both orally and in writing, complex technical issues.

(EXAMPLE: Describe significant technical presentations that you have made, technical meetings you have coordinated and chaired, and written

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RATING FACTORS - CONTINUED

material you have originated. Describe the purpose, audience and outcome of your written and oral communications. Describe work assignments that demonstrate your ability to communicate technical objectives, results and findings of research studies and programs.)

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.

NOTE: Salary Range: $63,211 - $82,180

PLEASE SUBMIT RESUME, SF-171, OR OF-612; MOST RECENT PERFORMANCE APPRAISAL; AND STATEMENT ADDRESSING RATING FACTORS TO:

U.S. Nuclear Regulatory Commission
Office of Human Resources
Attn: Katherine Schmidt Mail Stop: T2D32
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 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 YOUR MOST RECENT SF-50 (NOTIFICATION OF 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 EMPLOYING AGENCY.

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NRC FORM 114A
(9-82)

U.S. NUCLEAR REGULATORY COMMISSION

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RATING FACTORS - CONTINUED

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.