

DEFENSE NUCLEAR FACILITIES SAFETY BOARD



Extension

Announcement Number: DNFSB-11-003

Opens: January 13, 2011

Job Title: Chemical Engineer

Closes: June 30, 2011

**Pay Plan, Series, and Grade: DN-0801-III/IV/V
(Promotion Potential to DN-V)**

Duty Location: Washington, DC

Salary Range: \$81,957 - \$165,300

Number of Vacancies: 2

Type of Position: Excepted Service, Full-Time Permanent

Who May Be Considered: All qualified citizens of the United States

JOB SUMMARY:

The Defense Nuclear Facilities Safety Board (Board) is an independent Federal agency established by Congress to provide safety oversight of the defense nuclear complex operated by the Department of Energy (DOE) and to assure that the activities of the complex are carried out in a manner that provides adequate protection for the public, workers, and the environment. In order to carry out this oversight responsibility, the Board is seeking chemical engineers with work experience related to the review of all aspects of chemical processing and high explosives technology for defense nuclear facilities.

KEY REQUIREMENTS:

- Must be a U. S. citizen.
- Must be able to obtain and maintain a Top Secret security clearance. Use of illegal drugs at any time during the last 12 consecutive months may affect your ability to obtain a security clearance.
- Pre-employment drug testing is required; after appointment, you will be subject to random testing.
- Allowable relocation expenses will be paid.
- Two-year trial period may be required.
- Position may require traveling between 3 to 10 days overnight per month.

MAJOR DUTIES:

As a leader of and individual contributor to multi-disciplinary oversight teams, you will be responsible for:

- Reviewing the design of new facilities for compliance with DOE and industry standards for safety of facilities performing nuclear explosive operations, explosive experiments, or nuclear chemical processing involving separations processes, mixing of complex fluids, and flammable gas generation and control; reviewing adequacy of aging facilities for compliance with current standards and evaluating safety of changes to such activities within existing facilities.
- Conducting special studies, analyses, or reviews within area of expertise such as those related to technology development for nuclear chemical processes or explosives; evaluating safety implication for DOE's technology development efforts, and analyzing nuclear explosives hazards.
- Reviewing work products of consultants, DOE contractors, and others in area of expertise.
- Assisting in identification and development of appropriate Board actions, including formal Board recommendations to DOE.
- Reviewing and assessing the adequacy of DOE policies, programs and activities that have the potential for affecting public health and safety.
- Undertaking on-site reviews and field assignments, as appropriate.

QUALIFICATIONS:

Applicants must meet both the minimum education and experience qualifications described below.

1. Education

All applicants must possess a Bachelor's of science or higher degree in Chemical Engineering, Chemistry, Physics, or Materials Science from an accredited college or university. Advanced degrees are preferred. For degrees in fields of engineering, Accreditation Board for Engineering and Technology (ABET) certification of an engineering curriculum is also required.

2. Experience

For the **DN-III level**, at least five (5) years of related professional engineering experience is required. For the **DN-IV level**, eight (8) years of related professional engineering experience with extended training and experience demonstrated by recognized accomplishments. For the **DN-V level**, twelve (12) years of related professional engineering experience with extended training and experience demonstrated by recognized accomplishments.

Registration as a professional engineer by any State in the U.S. is desirable.

Related professional engineering experience includes:

- Experience in process chemistry, including a working knowledge of chemical process safety or process equipment design in nuclear facilities. Experience in chemical processing of actinide compounds is desirable. **OR**
- Experience in and a working knowledge of nuclear high explosives technology, including experience in the design and interpretation of large- and small-scale explosives

experiments, especially the safety of the technology and experiments. Experience in nuclear explosives hazards analysis is desirable.

- Experience in computer hydrocode simulation software applications for safety or performance, detonation or initiation theory, detonation blast wave structure interactions, or gaseous detonations is desirable.

HOW YOU WILL BE EVALUATED:

Qualified applicants will be further evaluated in terms of education and experience related to the following factors:

- Technical expertise and its relevance to the Board's work;
- Quality of education and technical experience; and
- Professional interactions and the purpose of those interactions (at what level, how often, and for what purpose; are interactions with industry representatives, the public, officials within DOE or other Federal and State/local Government agencies).

Applicants will be rated against these factors and placed in an overall quality category of "A," "B," or "C." Applicants in the highest quality categories (A and B) will be forwarded to the selecting official for further consideration. **NOTE: Applications will be accepted, reviewed, and referred to the selecting official on an on-going basis between the opening and closing dates.**

BENEFITS:

The following web address is provided as a reference to explore the major benefits offered to most Federal employees: http://www.opm.gov/insure/health/enrollment/new_employees.asp.

OTHER INFORMATION:

Veterans. By statute, the Board has excepted service appointment authority for its Engineer positions. Under this authority, veterans' preference does not apply. Although the Board is not required to consider veterans' preference for these positions, it is committed to hiring veterans and encourages all qualified veterans to apply. If selected for the position, a DD-214 and related records will be requested to document eligibility for other benefits.

Non-Competing Appointment. You can apply for an appointment without regard to competitive procedures if you meet the basic eligibility requirements for the position and you are eligible for a special appointment authorized for disabled veterans with at least 30% disability.

The Board does not discriminate in employment on the basis of race, color, religion, sex, national origin, political affiliation, sexual orientation, marital status, disability, age, membership in an employee organization, or other non-merit factor.

Federal agencies must provide reasonable accommodation to applicants with disabilities where appropriate. Applicants requiring reasonable accommodation for any part of the application and hiring process, please notify us. The decision to grant reasonable accommodation will be made on a case-by-case basis.

HOW TO APPLY FOR THIS JOB:

You may apply using a resume or a form OF-612 (Optional Application for Federal Employment). Form OF-612 can be found at the following link: http://www.opm.gov/forms/pdf_fill/of612.pdf. If you apply using a resume, please include all the information listed under "How to Apply" on pages 1 and 2 of that link. With your resume/application, you must include the following documentation:

- Include the year(s) of your degree(s) and your Grade Point Average(s). Transcripts may be requested at a later date.
- If requesting consideration for a non-competitive appointment, documentation from the Department of Veterans' Affairs demonstrating a 30% or higher compensable disability.
- Current or former Federal employees must include (a) Notice of Personnel Action(s) (SF 50) documenting your highest grade/pay level attained; and (b) your most recent performance appraisal.

Important information about the use of the social security number on your resume or application and other legal and regulatory notifications can be found at: http://www.usajobs.gov/vacancy/vac_legal_regulatory.asp.

All materials submitted with your application become the property of the U.S. Government and will not be returned.

APPLICATIONS MUST BE RECEIVED BY THE CLOSING DATE. Apply on-line at <http://www.usajobs.gov>. On-line applications must be received by 11:59 pm eastern time on June 30, 2011, to be considered. You may also personally deliver your completed application to: Defense Nuclear Facilities Safety Board, Division of Human Resources, Suite 700, Washington, DC 20004. Mailed/personally delivered applications must be received by 5:00 pm on June 30, 2011. We do not accept applications by. Applications mailed using Government postage will not be considered.

You must submit a complete application package. Failure to provide complete information may result in your not being considered for this position.

CONTACT INFORMATION:

Sonja Bivins
Phone: 202-694-7000
E-mail: jobs@dnfsb.gov

Or write:

Defense Nuclear Facilities Safety Board
625 Indiana Avenue, NW, Suite 700
ATTN: Division of Human Resources

Washington, DC 20004

WHAT TO EXPECT NEXT:

Once your complete application is received, we will conduct an evaluation of your qualifications and determine your ranking. The most highly qualified candidates will be referred to the selecting official for further consideration. You will be notified of the outcome.

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