TRADITIONAL OFFICER VACANCY ANNOUNCEMENT

FOR APPOINTMENT IN THE NEW JERSEY AIR NATIONAL GUARD

NEW JERSEY AIR NATIONAL GUARD 177th Fighter Wing 400 Langley Road Egg Harbor Township, NJ 08234	**ANNOUNCEMENT #** **OPEN DATE:** 01 December 2026
UNIT: 177th MDG	**CLOSE DATE:** Open until filled
MAX AVAILABLE GRADE: Lt Col / O-5	**AFSC:** 43E
POSITION TITLE: Bioenvironmental Engineer	**AREA OF CONSIDERATION:** Nationwide Individuals eligible for membership in the New Jersey Air National Guard

SPECIALTY SUMMARY: *(As outlined in AF Officer Classification Directory):*

Applies engineering and scientific principles in anticipating, recognizing, and evaluating occupational and environmental health (OEH) hazards, also called OEH threats. Employs professional knowledge to protect personnel and the environment from radiation hazards. Helps design and recommends risk control measures and other courses of action that enable Risk Management decisions, and in some cases patient care strategies, to ensure force health protection.

DUTIES AND RESPONSIBILITIES:

2.1. Executes and supervises Bioenvironmental Engineering (BE) programs. Applies knowledge of engineering and the sciences to assist commanders in meeting mission objectives at home station and in deployed settings. Advises commanders on impact of unacceptable risk to mission and/or risk to force and provides viable courses of action to reduce and eliminate health risks. Enables data-driven decision making, to ensure accurate OEH exposure documentation and to support the aerospace and operational medicine enterprise. Determines the appropriateness of personnel protective equipment and individual protective equipment. Identifies and assesses effectiveness of OEH controls. Maintains liaison with local, state, and federal agencies, and foreign entities when applicable, on matters involving OEH standards.
2.2. Performs and documents health risk assessments for chemical, biological, radiological, nuclear (CBRN), and physical hazards. Participates in installation contingency response activities, including exercises.
2.3. Develops measures to control radiological hazards, including those encountered in unrestricted areas to ensure permissible limits of radiation exposure are not exceeded. Enables radiological monitoring, measurement, and control for the Nuclear Enterprise. Serves as Radiation Safety Officer and Laser Safety Officer where required.
2.4. Directs and supervises technicians conducting base BE activities. May participate in the development of policy.
2.5. Delivers joint preventive medicine capabilities to prevent disease and non-battle injuries in the deployed environment.
2.6. AFSC 43EXG: Provides consultation regarding planning, designing, and constructing facilities for storage, use, and disposal of radioactive material or radiation producing devices. Guides the health risk assessment of exposure to ionizing and non-ionizing radiation; and ensures adherence to prescribed safety standards by evaluating activities involving the possession, handling, transportation, storage, use, and disposition of radioactive materials, as well as activities involving use of lasers and other non-ionizing radiation sources. Enhances Commander decision making through technical knowledge of radiological hazards and health threats to forces during nuclear and radiological incidents.

SPECIALTY QUALIFICATIONS (Mandatory):

3.1. Knowledge. The following knowledge is mandatory for the following AFSCs:
3.1.1. For AFSCs 43EXA/B/D/G/R, knowledge of all BE principles for force health protection spanning all operational environments.
3.1.2. For AFSCs 43EXM, intentional development of this shred ended on 1 Oct 19 with Defense Health Agency (DHA) assuming medical physics requirements at Air Force medical facilities.
3.2. Education. See specialty shredouts.
3.2.1. For award of AFSC 43E3B/D/G/R: Meet requirements of and possess AFSC 43E3A, and complete the education and/or certification requirements for the respective specialty shredouts below:
3.2.2. AFSC 43EXA (General): Baccalaureate degree or higher in an ABET-accredited engineering or industrial hygiene program; MS in radiation health physics; BS in biochemistry, chemistry, or physics (or biology for U.S. Service Academy graduates); or an engineering/radiation science program approved by the 43E Career Field Manager. (See Appendix A, 43E CIP Education Matrix for AFSC 4B071 entry requirements.)
3.2.3. AFSC 43EXB (Industrial Hygiene): MS or higher in ABET-accredited industrial hygiene (occupational health), or ABIH Industrial Hygienist certification.
3.2.4. AFSC 43EXD (Environmental Engineering and Science): MS or higher in ABET-accredited environmental engineering, a Professional Engineer (PE) license in environmental engineering, or AAEES Board Certified Environmental Engineer certification (excluding industrial hygiene or radiation protection engineering).
3.2.5. AFSC 43EXG (Health Physics): MS or higher in radiation health physics, radiation protection engineering, or nuclear engineering, or ABHP Certified Health Physicist certification.
3.2.6. AFSC 43EXM (Medical Physics): No new accessions as of 1 October 2019.

3.2.7. AFSC 43EXR (Radiation): Completion of: (1) AFRRI Medical Effects of Ionizing Radiation (MEIR) course; AND (2) a radiation science fellowship (DOE National Lab, Navy RASO, or AFRL Directed Energy), Oak Ridge Applied Health Physicist Full Course Certificate, or NWEPP certification; AND (3) one approved response course (NETOPS, Army Radiological Hazards and Operators Course, DNWS Applied Radiological Response Techniques Level 2, or Nevada National Security Site Response to Radiological/Nuclear WMD Incidents).
3.2.1. For award of AFSC 43E3B/D/G/R, meet requirements of and possession of AFSC 43E3A and complete the education and/or certification requirements in respective specialty shredouts.
3.3. Training. The following training is mandatory for award of the 43E3A AFSC:
3.3.1 Completion of the Online Training (required prior to attending the in-residence BE Officer Course).
3.3.2 Completion of the in-residence BE Officer Course, B3OBY43E1 0A1B.
3.3.3 Completion of Operational Preventive Medicine (OPM) course within the last 4 years.
3.3.4 Training waivers will be considered on a case-by-case basis approved by the 43E Career Field Manager.
3.4 Experience. The following experience is required for award of the AFSC indicated:
3.4.1 For award of AFSC 43E3A, completion of 12 months performing the work typical of a base BE flight or element. Duties prior to attending the in-residence BE Officer Course can be included in the 12 months of experience based on the discretion of the senior 43E that oversaw assigned duties.
3.4.2 Successful completion of a commissioning program such as Total Force Officer Training (TFOT), Reserve Officer Training Corps (ROTC) or a military service academy is required for award of the 43E3A AFSC.
3.4.3 The maximum Active-Duty timeline for award of AFSC 43E3A is 36 months, time in service (TIS). Failure to accomplish award of 43E3A by 36 months TIS requires waiver approval by the 43E Career Field Manager.
3.5 Other. The following qualifications are mandatory for entry into these AFSCs (medical waivers may be approved by the 43E Career Field Manager):
3.5.1 No record of acrophobia or claustrophobia.
3.5.2 Ability to clearly speak and communicate in the English language.
3.5.3 A valid state driver's license and ability to operate government motor vehicles in accordance with AFI 24-301, Vehicle Operations.
3.5.4 Normal color vision and depth perception as defined in DAFMAN 48-123, Medical Examinations and Standards.
3.5.5 Ability to carry 50 pounds of equipment in a chemical protective suit.
3.5.6 Successful medical clearance for enrollment and active participation in the Respiratory Protection Program, IAW AFI 48- 137, Respiratory Protection Program.

APPLICATION PROCEDURES:

1. Cover Letter
2. Professional Resume
3. College Transcript(s) (Required only for Commissioning Opportunity)
4. Current Report of Individual Person (RIP) from the vMPF (or equivalent from current service) (Required only for Prior Service)
5. Current Passing Fitness Assessment printout (or equivalent from current service) (Required only for Prior Service)
6. Last Three Performance Reports OPBs/EPBs or OPRs/EPRs (or equivalent from current service) (Required only for Prior Service)
7. 2 Letters of Recommendation

SELECTION BOARD:

Qualified applicants will be scheduled for an interview once completed package has been received and reviewed. All packages will be considered for all vacancy announcements.

Selecting Official: Lt Col Jessica Bramlette
Recruiting POC: SSgt Catherine Canario (609-439-8425)

APPLICATION PACKAGES WILL ONLY BE ACCEPTED VIA E-MAIL (Incomplete applications will not be considered)
EMAIL: catherine.canario@us.af.mil
SUBJECT: Wing, Rank, Last, First, MI: (ex. 17S_MSgt Walker, Terrell R)

ADDITIONAL INFORMATION:

Vacancy announcement will be used to fill a DSG position.
Questions regarding application process should be directed to CMSgt Brian McDevitt brian.mcdevitt@us.af.mil