

**OFFICER VACANCY ANNOUNCEMENT  
FOR APPOINTMENT/INITIAL APPOINTMENT TO THE  
TEXAS AIR NATIONAL GUARD**

**POSITION:** Bioenvironmental Eng/Officer

**ANNOUNCEMENT:** 136-12-06

**AFSC:** 43E3A

**POSITION #:** 0980542

**ISSUE DATE:** 24 January 2012

**GRADE:** Initial Commissioning 2Lt/O-1 to Lt Col/O-5

**CLOSING DATE:** 9 March 2012

**LOCATION:** 136<sup>th</sup> Medical Group  
Carswell Field, Fort Worth, TX

**Applications received by the 136 FSS after 1715 (CST) on the closing date will not be accepted and returned to the applicant. Electronic copies will not be accepted.**

**\*\*SEE REVERSE FOR SUMMARY OF MINIMUM POSITION QUALIFICATIONS\*\***

**HOW TO APPLY:** USAF, AF Reserves or ANG commissioned officers will submit a completed AF 1288 (Application for Reserve Assignment), copies of the last 3 OPRs, resume, records review rip, letter of introduction, current passing fitness test, & letters of recommendation. The AF Form 1288 and records review rip can be obtained from your Commander Support Staff or your servicing MPF.

**All other applicants** will submit a completed AF Form 24 (Application for Appointment), AFOQT scores, **certified** college transcripts, personal resume with cover letter, letters of recommendation. AF Form 24 and resume will be detailed chronologically of civilian and military experience with special emphasis on areas of experience and education related to position applying for.

**PERSONAL INTERVIEWS:** Applicants must be available for interview. Applications will be reviewed and qualified applicants will be notified to meet the Selection Board. Applicants will be notified by phone/mail of interview time and place. Payment for travel is **NOT AUTHORIZED**.

**REASONABLE COMMUTING DISTANCE:** Vacancies will normally be filled from personnel who are within or are willing to move within reasonable commuting distance of the military unit.

**NOTE:** The Adjutant General will not look favorably upon personnel who apply and are selected for a position in one geographical area and subsequently request to be transferred to another area because of the commuting distance involved. All applicants will receive consideration for this position without regard to race, religion, color, national origin, sex, political affiliation, kinship, and other non-merit factors.

## **POSITION QUALIFICATIONS**

★ **1. Specialty Summary.** Applies engineering and scientific principles in identifying and evaluating occupational and environmental health (OEH) hazards and recommending controls to support risk management decisions to ensure Force Health Protection. Related DoD Occupational Group: 260803.

- 2.1. Executes and supervises bioenvironmental engineering programs. Applies knowledge of engineering and the sciences to assist commanders in meeting mission objectives at home station and deployed settings. Performs health risk assessments for chemical, biological, radiological, nuclear, and physical hazards, which may compromise Force Health Protection. Advises commanders on impact of unacceptable risk to mission and provides viable courses of action to reduce and eliminate risk. Identifies and assesses effectiveness of occupational and environmental health controls. Participates in installation contingency response activities, including exercises. Determines the appropriateness of personnel protective equipment and individual protective equipment. May participate in development of policy. Directs and supervises technicians conducting base bioenvironmental engineering activities. Maintains liaison with local, state, and federal agencies on matters involving occupational and environmental health standards and;
- 2.2. Advises command and staff agencies on effective operational risk management (ORM) decisions and;
- 2.3. Develops measures to control radiological hazards; monitors staff and medical facilities, to include unrestricted areas to ensure permissible limits of health risk hazards are not exceeded. Coordinates medical physics activities. Serves as Radiation Safety Officer where required; and
- 2.4. AFSC 43EXG: Serves as Medical Service Radiation Consultant in planning, designing, and constructing facilities for storage, use, and disposal of radioactive material or radiation producing devices. Ensures adherence to prescribed safety standards by inspecting all procedures used to handle, ship, store, use or dispose of radioactive materials. Maintains liaison on health physics matters with representatives of the Radioisotope Committee, Nuclear Regulatory Commission, and other pertinent governmental and civilian agencies.
- 2.5. AFSC 43EXC/E: Applies knowledge of architecture and engineering to modernize and maintain health care, training, and laboratory facilities. Provides guidance on functional and technical criteria specific to medical design and construction. Programs and plans medical facilities projects, reviews plans, specifications, and other supporting data for their technical, medical, and functional sufficiency.
- 2.6. AFSC 43EXM: Develops, institutes, and sustains medical physics programs for radiotherapy, nuclear medicine, and diagnostic imaging physics services to support patient care. Supports radiology resident training programs. Conducts medical physics activities, research and development on medical physics related topics.

- 3.1. Knowledge. (43EXA/B/D/G/M): Knowledge of all bioenvironmental engineering principles for force health protection spanning all operational environments. (43EXC/E): Knowledge of medical construction or architecture principles for medical facility planning, design, and construction. (43EXM): Knowledge of medical physics programs for radiotherapy, nuclear medicine, and diagnostic imaging physics services.
- 3.2. Education. See specialty shredouts.
- 3.3. Training. For award of AFSC 43E3A/B/D/G/M, completion of the Bioenvironmental Engineering course, B3OBY43E1000.
- 3.4. Experience. The following experience for award of the AFSC indicated:
  - 3.4.1. For entry into 43E3B/D/G/M, qualification and possession of AFSC 43E3A.
  - 3.4.2. For award of AFSC 43E3A, a minimum of 24 months experience in bioenvironmental engineering assignments.
- 3.5. Other. Not used.

### *Suffix Portion of AFS to Which Related*

A..... **General.** Possess a baccalaureate degree or higher in engineering from an institution with that curricular program area accredited at the AFOCD, 31 October 2011

engineering level by the Accreditation Board for Engineering and Technology (ABET) or Possess a baccalaureate in engineering, biology, chemistry, or physics from the United States Air Force Academy or, Possess a Bachelor of Science (BS) degree in biology, chemistry, physics, health physics, industrial hygiene, or other degree approved by the 43E associate chief granted from an ABET or non-ABET accredited program, and satisfy one of the following options prior to being accessed into the Biomedical Sciences Corps:  
Prior qualification in and possession of AFSC 4B071 Bioenvironmental Engineering (BEE) Craftsman and have a minimum of 7 years active duty in the BEE career field or  
Hold a certification from the American Board of Health Physics (ABHP) or hold a certification from the American Board of Industrial Hygiene (ABIH), or pass the Fundamentals of Engineering (FE) examination, or  
Possess a Master of Science (MS) degree in medical physics granted from a program accredited by the Commission on Accreditation of Medical Physics Education Programs (CAMPEP), or  
Possess MS degree in medical physics granted from a non-CAMPEP accredited institution, and hold a certification from the American Board of Radiology (ABR) in one of the following three specialties: diagnostic radiologic physics, therapeutic radiologic physics, or medical nuclear physics.

B ..... **Industrial Hygiene.** Possess MS in industrial hygiene (industrial health), or certification by the American Board of Industrial Hygiene as an industrial hygienist.

C ..... **Medical Construction.** Possess baccalaureate degree or higher in architectural, civil, mechanical, electrical, or structural engineering, from an institution with that program area accredited by ABET at the engineering level, or a baccalaureate or higher in facility construction from an institution accredited by a national professional accreditation board or council.

D..... **Environmental.** Possess MS in environmental engineering or, graduate from Air Force Institute of Technology with a graduate degree in Environmental Engineering and Management Science, be a Professional Engineer qualified in environmental engineering or hold a certification by the American Academy of Environmental Engineers.

E ..... **Architecture.** Possess baccalaureate degree in architecture from an institution accredited by the National Architectural Accreditation Board (NAAB).

G..... **Health Physics.** Possess a MS in health physics, radiological physics, radiation biophysics, or other health physics related subjects acceptable to the Surgeon General, HQ USAF, or possess a BS degree in nuclear engineering, or Certification by the American Board of Health Physics.

M ..... **Medical Physics.** Possess certification by the American Board of Radiology in one of the following specialties: diagnostic radiologic physics, therapeutic radiologic physics, or medical nuclear physics.

**SUBMIT APPLICATIONS TO:** 136 FSS/FSMP  
MSgt Michael Butzlaff  
200 Hensley Ave, Bldg 1672  
Carswell Field, Fort Worth TX 76127-1672