



# DEPARTMENTS OF THE ARMY AND AIR FORCE

JOINT FORCE HEADQUARTERS-LOUISIANA  
OFFICE OF THE ADJUTANT GENERAL  
JACKSON BARRACKS  
NEW ORLEANS, LOUISIANA 70117

**Announcement Number: 042-22**

<b>POSITION TITLE:</b> Bioenvironmental Engineering	<b>AFSC</b> 4B051	<b>OPEN DATE:</b> 20 July 2022	<b>CLOSE DATE:</b> 9 August 2022
<b>UNIT OF ACTIVITY/DUTY LOCATION:</b> 159 <sup>th</sup> Medical Group, New Orleans, Louisiana		<b>GRADE REQUIREMENT:</b> <b>Min:</b> E-5 <b>Max:</b> E-7	
<b>SELECTING SUPERVISOR:</b> Capt Walter D. Jacobsen	<b>Position Number</b> 0995183		

### AREAS OF CONSIDERATION

On-board LA ANG AGR (**Any AFSC**)

### MAJOR DUTIES

Please refer to attached pages for more info on the major duties and initial qualifications for this position for this AFSC or go to: <https://www.my.af.mil> to review the AFECD

### INITIAL ELIGIBILITY CRITERIA

\*In addition to criteria listed on attached pages\*

- Security Clearance - Must be able to obtain: Secret
- No record of acrophobia or claustrophobia
- Ability to speak distinctly
- Possess a valid state driver's license to operate government motor vehicles in accordance with Air Force Instruction 24- 301, Vehicle Operations
- Maintain local network access IAW AFI 17-130, Cybersecurity Program Management and AFMAN 17-1301, Computer Security
- Aptitude Requirement: Gen 49
- PULHES: 333323
- Strength requirement: Ability to wear a 40-pound air pack while carrying 40 pounds of equipment in a totally encapsulating chemical protective suit

### PREFERRED QUALIFICATIONS

In accordance with HRO and ANGI 36-101, the following documents have been requested by the Selection Official. Applications received that do not contain these requested items will not be screened-out by HRO; but it may adversely affect the selection.

1. Cover Letter
2. Resume
3. Last three (3) EPRs / OPRs
4. Letter(s) of Recommendation
5. Copy of State Driver's License (photocopy of both sides)

## ACTIVE GUARD AND RESERVE REQUIREMENTS

Initial tours for the LA ANG may not exceed 5 years. AGR tours may not extend beyond an Enlisted member's ETS or an Officer's MSD. Airmen must meet the minimum requirements for each fitness component in addition to scoring an overall composite of 75 or higher for entry into the AGR program. For members with a documented Duty Limitation Code (DLC) which prohibits them from performing one or more components of the Fitness Assessment, an overall "Pass" rating is required.

Individuals selected for AGR tours must meet the Preventative Health Assessment (PHA)/physical qualifications outlined in AFI 48-123, Medical Examination and Standards. They must also be current in all Individual Medical Readiness (IMR) requirements to include immunizations. RCPHA/PHA and dental must be conducted not more than 12 months prior to entry on AGR duty and an HIV test must be completed not more than six months prior to the start date of the AGR tour. Enlisted Airmen who are voluntarily assigned to a position which would cause an overgrade must indicate such in writing; a voluntary demotion letter must be included with the application in accordance with ANGI 36-2503, Administrative Demotion of Airmen, when assigned to the position. Acceptance of demotion must be in writing and included in the assignment application package. Application Package will not be forwarded without Administrative Demotion statement. If a selectee does not possess the advertised AFSC, he/she must complete the required training/assignment criteria within 12 months of being assigned to the position. Failure to do so may result in immediate termination. Extension past 12-months will only be considered if the delay is through no fault of the applicant. Any further questions regarding the AGR program may be answered in ANGI 36-101.

## SPECIAL ANNOUNCEMENT CRITERIA

- Upon selection additional medical verification will be required prior to start of AGR tour
- Any Individual(s) selected for this position must meet EFMP requirements for the duty location at time of assignment.
- Members that do not meet EFMP standards for the duty location may be subject to a rescinded offer of employment.
- Continuation beyond initial tour may be subject to evaluation based on AGR Continuation Board
- Selection is not a promise of promotion

**CEM Code 4B000**  
**AFSC 4B091, Superintendent**  
**AFSC 4B071, Craftsman**  
**AFSC 4B051, Journeyman**  
**AFSC 4B031, Apprentice**  
**AFSC 4B011, Helper**

**BIOENVIRONMENTAL ENGINEERING (BE)**  
**(Changed 31 Oct 16)**

**1. Specialty Summary.** Perform and manage occupational and environmental health-related activities to include anticipating, recognizing, evaluating, and controlling exposure(s) to chemical, biological, and radiological hazards in garrison and deployed settings. Perform health risk assessments by monitoring and sampling to identify and quantify chemical, biological, radiological, and nuclear hazards. Provide expert health risk communication to support commander's decision making and to prevent short and long term health effects to all personnel residing and/or working on the installation. Related DoD Occupational Subgroup: 132200.

**2. Duties and Responsibilities:**

2.1. Conduct preventative medicine studies in support of base vulnerability assessments (i.e. water and toxic industrial chemicals/toxic industrial materials). Coordinate with the base Anti-Terrorism/Force Protection Office, Civil Engineering, Security Forces, and other applicable Air Force Medical Service counterparts to locate and identify critical infrastructure and components and develop a mitigation plan. Use existing sources of intelligence to identify potential future threats. Assess overall vulnerabilities and provide recommendations to commanders to minimize health risk(s) to base personnel and mission.

2.2. Identify and approve potable and non-potable water sources. Analyze local surface and ground water sources to determine the potability for both drinking and recreational purposes. Address health risks associated with non-potable water and communicate effective solutions to address potential health concerns.

2.3. Execute Occupational & Environmental Health Site Assessments. Collect site-specific data to characterize exposure pathways and levels to chemical, physical or radiological contaminants while in garrison and deployed. Identify occupational & environmental health hazards and risks that may negatively impact health, human performance, and environmental health quality and communicate/advise the commander(s) and key site planning leadership of assessment results for use in site selection and site bed down planning in all operational environments. Document occupational & environmental health site assessment findings in the approved occupational & environmental health-management information system.

2.4. Respond to accidents, natural disasters, and attack by hostile forces that may result in exposure(s) to occupational & environmental health threats. Perform on-site health risk assessments within potential exposure zone(s), communicate health risk(s) to the commander, and document information regarding exposure(s) in an approved occupational & environmental health-management information system.

2.5. Identify health hazards to all personnel residing and/or working on the installation. Anticipate and recognize actual or potential chemical, biological, radiological, nuclear and physical health threats. Collaborate with civil engineering and other base personnel to locate and identify hazards from occupational, environmental, and recreational sources. Analyze and evaluate actual or potential health threats using available equipment.

2.6. Coordinate with certified laboratories to collect, preserve, package, and ship samples associated with an emergency response in garrison or while deployed.

2.7. Conduct post-exposure investigations. Use analytical or predictive exposure modeling data to mitigate or eliminate health risks during future operations or other similar and concurrent operation by making recommendations to commanders.

2.8. Provide control recommendations to mitigate or eliminate occupational & chemical, biological, radiological, or nuclear health threats. Apply the hierarchy of hazard control- first apply/use engineering controls, then apply/use administrative controls and lastly, recommend personal protective equipment.

2.9. Determine protective measures in chemical, biological, radiological, and nuclear operating environments. Provide relevant threat control recommendations to the commander with respect to real-time and future operations. Consult with shelter management teams to determine the adequacy of collective protection for controlling health threats and perform health risk assessments to determine when to release personnel from collectively protected facilities.

2.10. Associate exposure(s) with affected personnel. Document exposures of affected individuals and at-risk populations using the approved occupational & environmental health- management information system (i.e. the Defense Occupational and Environmental Health Readiness System in order to establish an individual longitudinal exposure record).

2.11. Participate in risk management/communication. Advise senior leadership and affected communities on health risks associated with operations and missions, the environment, and recreational activities. Effectively communicate on health effects, control measures, and outcomes.

**3. Specialty Qualifications:**

3.1. Knowledge. Knowledge is mandatory of basic and applied mathematics, basic chemistry, physics and computer usage, occupational & environmental health (i.e. industrial hygiene, drinking water surveillance, and radiological health), medical administration, and bioenvironmental engineering aspects of medical readiness.

- 3.2. Education. For entry into this specialty, completion of Algebra I, chemistry, biology, and English composition courses in high school are mandatory. Completion of high school courses in Algebra II and physics are desirable.
- 3.3. Training. The following are mandatory for award of the AFSCs indicated:
- 3.3.1. For award of AFSC 4B031, completion of the basic bioenvironmental engineering apprentice course (B3ABY4B031 0A1A; PDS Code GO4).
- 3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
- 3.4.1. AFSC 4B051. Qualification in and possession of AFSC 4B031. Experience conducting bioenvironmental engineering evaluations and surveys.
- 3.4.2. AFSC 4B071. Qualification in and possession of AFSC 4B051. Perform and supervise health risk and vulnerability assessments, occupational & environmental health site assessments, and medical readiness requirements to include the preparation of all related correspondence, reports, and charts.
- 3.4.2.1. Attend and successfully complete the Occupational Health Measurements course (B3AZY4B071 0A1B).
- 3.4.3. AFSC 4B091. Qualification in and possession of AFSC 4B071. Experience managing occupational & environmental health risk assessments, surveillance, and medical readiness programs. Experience managing the overall administrative operations of the bioenvironmental engineering flight to include manpower and planning, programming, budgeting, and execution requirements.
- 3.5. Other. The following are mandatory as indicated:
- 3.5.1. See attachment 4 (part II of the Air Force Enlisted Classification Directory) for additional entry requirements.
- 3.5.2. For entry, award, and retention of this specialty:
- 3.5.2.1. No record of acrophobia or claustrophobia.
- 3.5.2.2. Ability to speak distinctly.
- 3.5.2.3. Must possess a valid state driver's license to operate government motor vehicles in accordance with Air Force Instruction 24-301, *Vehicle Operations*.
- 3.5.2.4. Normal color vision and depth perception as defined in Air Force Instruction 48-123, *Medical Examinations and Standards*.
- 3.5.2.5. Must maintain local network access IAW AFI 17-130, *Cybersecurity Program Management* and AFMAN 17-1301, *Computer Security*.
- 3.5.2.6. Ability to wear a 40-pound air pack while carrying 40 pounds of equipment in a totally encapsulating chemical protective suit.
- 3.5.2.7. Medically qualified in accordance with Air Force Instruction 48-137, *Respiratory Protection Program*.
- 3.5.2.8. For AFRC, minimum entry AFSC is 4B051.

	3E3X1		47				K	3	3	3	2	2	3		
	3E4X1	2	47			28	J	3	3	3	2	2	3		
	3E4X3				38		J	3	3	3	2	2	3		
	3E5X1				49		G	3	3	3	2	2	3		
6-Jul-10	3E6X1				44		J	3	3	3	2	2	3		
30-Apr-20	3E7X1				57		N	1	1	1	2	2	1		X
31-Oct-19	3E8X1	2, 3	47		50		L	1	1	1	1	3	1		X
	3E9X1				62		H	2	2	2	2	2	1		X
31-Oct-20	3F0X1			59			G	3	3	3	2	3	3		
31 Oct 17	3F1X1				24		H	3	3	3	3	3	3		
30-Apr-18	3F2X1			62			G	3	3	3	3	3	3		
31 Oct 17	3F3X1				66		G	3	3	3	2	3	3		
31 Oct 17	3F4X1	1		41	44		G	3	3	3	3	3	1		
31-Oct-20	3F5X1			55			K	2	2	2	2	2	2		X
	3G0X1						G	1	1	1	3	2	1		
	3H0X1				72		G	3	3	3	2	3	3		X
31-Oct-20	3N0X6				72		J	2	2	2	2	1	1		X
	3N1X1X	1		21	24		G	3	2	1	2	3	1		
	3N2X1	1		21	24		G	3	2	1	2	3	1		
30-Apr-20	3N3X1	1		21	24		G	3	2	1	2	3	1		
31-Oct-18	3P0X1				30		K	2	2	2	1	2	1		X
	3P0X1A				33		K	2	2	2	1	2	1		X
16-Nov-09	3P0X1B		35				K	2	2	2	1	2	1		X
	4A0X1				44		G	3	3	3	2	3	3		
30-Apr-18	4A1X1			48			H	3	3	3	3	2	3		
	4A2X1	2	60			70	H	2	2	2	3	3	1		
1-Aug-12	4B0X1				49		L	3	3	3	3	2	3		
30-Apr-18	4C0X1			57			G	2	2	2	2	3	1		
	4D0X1				44		G	3	3	3	2	3	2		
30-Apr-18	4E0X1			48			H	3	3	3	2	2	2		
	4H0X1				44		G	3	3	3	3	3	3		
30-Apr-18	4J0X2			51			G	1	1	1	2	2	1		
30-Apr-18	4J0X2A			51			G	1	1	1	2	2	1		
8-Jul-10	X4N0X1				50		K	1	1	1	1	2	1		
8-Jul-10	4N0X1				50		G	2	2	2	2	2	1		X
8-Jul-10	4N0X1B				50		G	2	2	2	2	2	1		
8-Jul-10	4N0X1C				50		G	2	2	2	2	2	1		
30-Apr-20	4N0X1D				50		G	2	2	2	2	2	1		
31-Oct-20	4N1X1				44		G	3	3	2	3	3	3		X
30-Apr-18	4N1X1B			50			G	3	3	2	3	3	3		
30-Apr-18	4N1X1C			50			G	3	3	2	3	3	3		
	4N1X1D				44		G	3	3	2	3	3	3		
31-Oct-21	4P0X1			40			H	2	2	2	2	2	1		
	4R0X1				44		G	3	3	3	2	3	3		
	4R0X1A				44		G	3	3	3	2	3	3		
	4R0X1B				44		H	3	3	3	2	3	3		
	4R0X1C				44		H	3	3	3	2	3	3		
	4T0X1				62		G	3	3	3	3	3	3		
	4T0X2				44		G	3	3	3	3	3	3		
30-Apr-18	4V0X1			57			G	3	3	3	2	2	3		X