

**AIR NATIONAL GUARD**  
117<sup>TH</sup> AIR REFUELING WING (AMC)  
SUMPTER SMITH JOINT NATIONAL GUARD BASE  
BIRMINGHAM, ALABAMA 35217

**ACTIVE GUARD RESERVE (AGR) – MILITARY VACANCY ANNOUNCEMENT # 21-021**

**OPEN DATE: 8 APRIL 2021**

**EXPIRATION DATE: 7 MAY 2021**

**Open To: STATEWIDE**

**Number of Positions: 1**

**Position Title: MOBILITY AIR FORCES INTEGRATED  
COMMUNICATION/NAVIGATION/MISSION SYSTEMS (Changed 31 Oct 18)**

**Position Number: 1L00970455**

**Minimum/Maximum Grade Authorized: SRA-TSGT**

**Duty AFSC: 2A8X1**

**Security Clearance: Secret**

**ASVAB REQ'D: 70 ELECTRIC**

**Unit/Duty Location: 117th Maintenance Squadron**

**Selecting Official: MSgt Chad Ashby**

**HRO Remote: TSgt Jerica Waters (205)714-2686**

If your current grade exceeds the maximum grade of this announcement, you must submit a written statement indicating willingness to accept an administrative reduction.

### **APPLICATION REQUIREMENTS**

1. Signed NGB Form 34-1, <https://www.ngbpd.c.ngb.army.mil/Portals/27/forms/ngb%20forms/ngb34-1.pdf?ver=2018-09-28-105133-833>
2. Current Report of Individual Personnel (RIP): Obtain from Virtual Military Personnel Flight (vMPF)
3. AF Form 422: Must be signed and verified within 6 months from your Medical Group
4. Air Force Fitness Management System II (AFFMSII) Fitness Report: Must be Current and passing
5. All applications must be submitted with a completed AGR Eligibility Checklist, found in ANGI 36-101. Your unit's HRO Remote Designee or the appropriate FSS representative must complete this checklist.

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**Mail or hand carry completed application packages to:**

**JFHQ-AL MDM  
ATTN: MSG John D. Kilpatrick  
P.O. Box 3711  
Montgomery, AL 36109-0711**

**AFSC 2A871\*, Craftsman AFSC 2A851\*, Journeyman AFSC 2A831\*, Apprentice AFSC 2A811\*, Helper  
MOBILITY AIR FORCES INTEGRATED COMMUNICATION/NAVIGATION/MISSION SYSTEMS  
(Changed 31 Oct 18)**

**1. Specialty Summary.** Analyzes malfunctions, inspects, removes, maintains, and installs integrated communication/navigation/mission systems. Performs and supervises avionics maintenance and general aircraft servicing and handling. Related DoD Occupational Subgroup: 119800.

**2. Duties and Responsibilities:**

2.1. Operates and maintains communication/navigation/mission systems on C-5, C-12, C-17, C-20, C-21, C-26, C-32, C-37, C-40 C-130 (except SOF/PR & EC-130), KC-10, KC-46 and KC-135 aircraft. Analyzes equipment operating characteristics to isolate malfunctions in avionics systems, radar, integrated test systems built-in-test (BIT), multiplexed data bus systems, recording systems, video display systems, flight instruments, mission computer systems, inertial navigation systems (INS), global positioning system, traffic collision avoidance system, electronic warfare (EW) systems, sensors, communication, and navigation systems, transponders, aircraft indicating systems, flight formation systems,

2.2. Removes, installs, checks, and repairs avionics systems and line replaceable units (LRU). Diagnoses malfunctions using technical orders, schematics, wiring diagrams, integrated test systems and other test equipment. Removes, replaces, and repairs faulty system wiring, electrical connectors, antennas, transmission lines, and multiconductor cables. Modifies avionics systems according to technical publications. Updates operational logs, inspection records, aircraft forms, and automated maintenance systems. Performs and supervises alignment, calibration, and boresight of avionics systems. Uploads ground maintenance and operational software. Performs off- equipment maintenance on selected avionics LRUs and maintains peculiar support equipment (SE).

2.3. Inspects and evaluates aircraft maintenance activities. Inspects and verifies operational status and configuration of avionics systems and software. Records and ensures validity of entries into maintenance data collection and inspection systems. Resolves and assists units in solving maintenance and supply problems. Interprets and recommends corrective action to inspection findings. Prepares aircraft for low altitude profiles, precision air drop.

2.4. Plans, organizes and directs aircraft maintenance activities. Establishes methods and performance standards. Analyzes reports and maintenance plans. Directs operation and modification of standard operating procedures. Establishes priorities. Evaluates activities for compliance with directives. Supervises and assists in aircraft ground servicing, and launch/recovery operations. Reviews maintenance data collection summaries to determine trends and production effectiveness.

**3. Specialty Qualifications:**

3.1. Knowledge. Knowledge is mandatory of: cyber protection theory and hygiene, including weapon system attack surfaces and air-gapped system risks; interpreting and applying mechanical, wiring, and electronic circuit diagrams; electronic, micro-processor, data bus, and mechanical principles theory and application; theory of flight; gyros, synchros, indicators, memory storage devices, antennas, servomechanisms, electromechanical, and electro-optical devices; radar, radio frequency communication, surveillance radar systems, pulse Doppler radar theory, dependent navigation aids, inertial and radar navigation, electronic countermeasure transmitters and receivers; lasers, infrared/ultraviolet receivers; optics, instruments, multiplexing, video display, and digital computer systems working principles; subsystem tie-in between integrated avionics systems; using and interpreting testing and measuring devices; mechanical and electrical means; and concepts and application of maintenance directives.

3.2. Education. For entry into this specialty, completion of high school courses in physics, computers, and mathematics is desirable.

3.3. Training. The following training is mandatory for award of the AFSC indicated: 3.3.1. For award of AFSC 2A831X, completion of the applicable basic avionics systems course is mandatory.

3.3.2. For award of AFSC 2A871X: 3.3.2.1. Completion of the craftsman course is mandatory.

3.3.2.2. Completion of Advanced Wiring Maintenance Course J4AMP3000 A48A PDS ZIZ per the MAJCOM Mandatory Course List (MMCL) (ANG/AFRC exempt). Not applicable to personnel assigned to locations where the course is not yet available at the local Field Training Detachment (FTD).

3.4. Experience. The following experience is mandatory for award of the AFSC indicated: 3.4.1. 2A851X. Qualification in and possession of AFSC 2A831X. Also, experience isolating malfunctions, removing and installing LRUs, and use of test and ground SE.

3.4.2. 2A871X. Qualification in and possession of AFSC 2A851X. Also, experience performing or supervising functions such as analyzing and isolating integrated avionics systems malfunctions and using test equipment.

3.5. Other. The following are mandatory as indicated: 3.5.1. For entry into this specialty: 3.5.1.1. No record of acrophobia.

3.5.1.2. Normal color vision as defined in AFI 48-123, *Medical Examinations and Standards*.

3.5.1.3. See attachment 4 for additional entry requirements.

3.5.2. For award and retention of these AFSCs:

3.5.2.1. Must maintain local network access IAW AFI 17-130, *Cybersecurity Program Management* and AFMAN 17-1301, *Computer Security*.

3.5.2.2. Specialty requires routine access to Tier 3 (T3) information, systems or similar classified environment.

3.5.2.3. Completion of a current T3 Investigation required IAW DoDM 5200.02, AFMAN 16-1405, *Air Force Personnel Security Program*, is mandatory.

**NOTE:** Award entry level without a completed T3 Investigation is authorized provided an interim Secret security clearance has been granted according to DoDM 5200.02, AFMAN 16 -1405.

**4. \*Specialty Shredouts:**

*Suffix Portion of AFS to Which Related*

A C-5

B C-17

C C-130/WC-130 (except SOF/PR & EC-130)

D C-12, C-20, C-21, C-26, C-32, C-37, C-40

E Cargo Comm/Counter/Nav Systems

F KC-10

G KC-135

H KC-46

J Tanker Comm/Counter/Nav Systems

**NOTE:** Suffixes A/B/C/D/F/G/H are applicable to the 1-, 3-, and 5-skill levels only. Suffixes E/J are applicable to the 7-skill level only.