

**Supplemental Table 1. Military occupational job titles in each occupation/occupational group**

<b>Occupation</b>	<b>AFSC</b>	<b>Military occupational job title</b>
Aircrew operations	1A	Airborne Cryptologic Linguist Craftsman; Airborne Cryptologic Language Analyst Helper; Airborne Battle Management Systems Craftsman, Weapons Director; Airborne Mission Systems Specialist Journeyman/ Craftsman/Superintendent; Airborne Missions Systems Journeyman/Craftsman; Aircraft Loadmaster Apprentice/Journeyman/Craftsman; Airborne Operations Journeyman; Flight Engineer Craftsman; In-Flight Refueling Specialist Helper/Apprentice Craftsman; Flight Engineer Craftsman; Special Mission Aviator Craftsman
Command and control systems operations	1C	Air Traffic Control Helper/Apprentice/Journeyman/Craftsman/Manager; Command and Control Battle Management Operations Apprentice/Journeyman/Craftsman; Command and Control Operations Craftsman; Combat Control Helper/Journeyman/Craftsman/Superintendent; Command and Control Battle Management Operations Craftsman, Weapons Director; Space Systems Operations Journeyman; Tactical Air Control Party Apprentice/Journeyman/Craftsman
Aerospace maintenance	2A	A-10, F-15, and U-2 Avionics Systems Helper/Apprentice/Journeyman, Attack Control; A-10, F-15, and U-2 Avionics Systems Helper/Journeyman, Communication, Navigation, And Penetration Aids; Aircrew Egress Systems Apprentice/Journeyman/Craftsman; Aircraft Metals Technology Craftsman; Airborne Surveillance Radar Systems Craftsman; Aircraft Electrical And Environmental Systems Helper/Journeyman/Craftsman; Electronic Warfare Systems; Integrated Avionics Systems (Heavy) Craftsman, Communication, Navigation, and Mission; Integrated Avionics Systems (Attack/Special) Journeyman; Bomb-navigation Systems; Bomber/Special Electronic Warfare and Radar Surveillance Integrated Avionics Craftsman; Mobility Air Forces Integrated Communication/Navigation/Mission Systems Craftsman, Tanker Comm/Counter/Nav Systems; Mobility Air Forces Integrated Communication/Navigation/Mission Systems Craftsman, Cargo Comm/Counter/Nav Systems Integrated Avionics Systems (Heavy) Helper/Journeyman/Craftsman, Instrument And Flight Controls; Integrated Avionics Systems (Heavy) Journeyman/Craftsman, Communication, Navigation, and Mission; Integrated Avionics Systems (Attack/Special) Journeyman; Avionics Test Station And Components Journeyman/Craftsman, Electronic Warfare Systems, All Helicopters and Aircraft; Avionics Test Station And Components Helper, Avionics Systems; Avionics Test Station And Components Helper/Craftsman, Avionics Systems, F-15; Avionics Test Station And Components Apprentice, Avionics Sensor Systems, All; Avionics Test Station And Components Helper, Avionics Sensor Systems and Electronic Warfare Systems; Avionic Sensors Maintenance Apprentice; Avionics Guidance And Control Systems Craftsman; Helicopters and Aircraft; Aircraft Fuel Systems Apprentice/Journeyman/Craftsman; Aerospace Maintenance Helper, C-18/C-135/E-3/VC-25/VC-137; Airlift/Special Mission Aircraft Maintenance Apprentice, C-17;

		<p>Airlift/Special Mission Aircraft Maintenance Craftsman/Superintendent;  Airlift/Special Mission Aircraft Maintenance Helper/Journeyman, C-130/C-27J;  Tactical Aircraft Maintenance Apprentice/Journeyman, F-15;  Tactical Aircraft Maintenance Craftsman;  Tactical Aircraft Maintenance Journeyman/Craftsman, F-16/F-117;  Tactical Aircraft Maintenance Craftsman/Journeyman, General (except F-15/F-16);  Tactical Aircraft Maintenance Helper, F-16;  Tactical Aircraft Maintenance Journeyman, A-10/U-2;  Remotely Piloted Aircraft Maintenance Journeyman, MQ-1/MQ-9  Helicopter/Tiltrotor Aircraft Maintenance Journeyman/Craftsman;  Aerospace Propulsion Craftsman;  Aerospace Propulsion Craftsman/Journeyman, Turboprop and Turboshaft Propulsion;  Aerospace Propulsion Journeyman, F100, F101, F110, F118, F119, F135 Jet Engines;  Aerospace Propulsion Journeyman, Jet Engines;  Aerospace Maintenance Helper/Apprentice, C-18/C-135/E-3/VC-25/VC-137;  Aerospace Maintenance Journeyman;  Aerospace Maintenance Journeyman, All C-135/C-18/E-3/E-4/KC-10/ VC-25/VC-137;  Aerospace Maintenance Journeyman, B-1/B-2/B-52;  Aerospace Maintenance Journeyman, C-5/C-9/C-12/C-17/C-20/C-21/C-22/ C 26/C-27/C-130/T-39/T-43;  Aircraft Structural Maintenance Apprentice/Journeyman/Craftsman;  Low Observable Aircraft Structural Maintenance Journeyman;  Aerospace Propulsion Journeyman, Jet Engines;  Refuel/Bomber Aircraft Maintenance Craftsman;  Refuel/Bomber Aircraft Maintenance Journeyman, Any C-135/E-3/E-8;  Aircraft Hydraulic Systems Craftsman;  Aerospace Ground Equipment Helper/Apprentice/Journeyman/Craftsman/Superintendent;  Nondestructive Inspection Journeyman/Craftsman;  Survival Equipment Journeyman;  Aircraft Guidance And Control Systems Apprentice/Craftsman;  Aircraft Fabrication Superintenden;  Communication And Navigation Systems Craftsman</p>
Fuels	2F	Fuels Apprentice/Journeyman/Craftsman
Material management	2S	<p>Materiel Management Apprentice/Journeyman/Craftsman;  Supply Systems Analysis Apprentice</p>
Transportation	2T	<p>Air Transportation Helper/Apprentice/Journeyman/Craftsman/Superintendent;  Ground Transportation Apprentice/Journeyman/Craftsman;  Mission Generation Vehicular Equipment Maintenance Apprentice/Journeyman;  Traffic Management Journeyman/Craftsman;  Vehicle And Vehicular Equipment Maintenance Craftsman;  Vehicle Body Maintenance Journeyman</p>
Munitions and weapons	2W	<p>Aircraft Armament Systems Craftsman/Journeyman;  Aircraft Armament Systems Apprentice, F-15;  Aircraft Armament Systems Helper/Apprentice, F-16;  Aircraft Armament Systems Manager;  Munitions Systems Apprentice/Journeyman/Craftsman;  Nuclear Weapons Helper/Apprentice</p>
Communication-Electronics/Wire Systems Maintenance	2E	<p>Automatic Tracking Radar;  Communications Antenna Systems Apprentice;  Communications Cable and Antenna Systems Journeyman;  Communications Systems Superintendent;  Ground Radar Systems Journeyman/Craftsman;  Ground Radio Communications Helper/Apprentice/Craftsman;  Instrumentation And Telemetry Systems Craftsman;  Network Infrastructure Systems Journeyman/Craftsman;  Satellite, Wideband and Telemetry Systems Journeyman/Craftsman;</p>

		Secure Communications Systems Journeyman; Space Systems Apprentice; Visual Imagery and Intrusion Detection Systems Craftsman; Voice Network Systems Apprentice/Journeyman/Craftsman
Communications/ network	3C	Communications - Computer Systems Operations Apprentice/Journeyman/Craftsman; Communications - Computer Systems Planning And Implementation Craftsman; Communications - Computer Systems Programming Helper/Journeyman/Craftsman Network Integration Journeyman/Craftsman; Radio Communications Systems Craftsman
Cyberspace support	3D	Airfield Systems Craftsman; Cable and Antenna Systems Journeyman/Craftsman; Client Systems Apprentice/Journeyman/Craftsman; Cyber Surety Journeyman/Craftsman; Cyber Systems Operations Helper/Apprentice/Journeyman/Craftsman; Cyber Transport Systems Journeyman/Craftsman; RF Transmission Systems Journeyman/Craftsman
Security forces	3P	Law Enforcement Apprentice; Security Forces Helper/Apprentice/Journeyman/Craftsman;; Security Forces Apprentice/Journeyman, Military Working Dog Handler; Security Forces Journeyman, Combat Arms; Security Forces Manager
Fire protection	3E7x1	Fire Protection Apprentice/Journeyman/Craftsman;
Aerospace medical/surgical service	4N	Aerospace Medical Service Apprentice/Craftsman/Journeyman; Aerospace Medical Service Craftsman, Independent Duty Medical Technician; Aerospace Medical Service Journeyman, Allergy/immunology; Surgical Service Journeyman/Craftsman
Pilot	11	Airlift Pilot, C-130; Airlift Pilot, C-141; Airlift Pilot, C-21 Bomber Pilot, B-52; Fighter Pilot, A-10; Fighter Pilot, Air Liaison Officer (ALO); Fighter Pilot, F-15; Fighter Pilot, F-15E; Fighter Pilot, F-16; Fighter Pilot, F-22; Mobility Pilot, C-130E/H; Mobility Pilot, C-130J; Mobility Pilot, C-17; Mobility Pilot, KC-10; Mobility Pilot, KC-135; Reconnaissance/Surveillance/Electronic Warfare Pilot, E-3; Remotely Piloted Aircraft (RPA) Pilot, RQ-4; Rescue Pilot, General; Rescue Pilot, HH-60; Special Operations Pilot, AC-130U; Special Operations Pilot, Air Commando (NSAv, DM); Special Operations Pilot, MC-130H; Special Operations Pilot, U-28; Tanker Pilot, KC-10; Tanker Pilot, SUPT Phase III Instr (T-1/ T-38/T-44); Trainer Pilot, AT-38; Trainer Pilot, T-1; Trainer Pilot, T-37; Trainer Pilot, T-38; Trainer Pilot, T-6

Fixed-wing pilot	11A, 11K, 11M, 11R, 11S, 11T	<u>11A</u> Airlift Pilot, C-130; Airlift Pilot, C-141; Airlift Pilot, C-21 <u>11K</u> Trainer Pilot, AT-38; Trainer Pilot, T-1; Trainer Pilot, T-37; Trainer Pilot, T-38; Trainer Pilot, T-6 <u>11M</u> Mobility Pilot, C-130E/H; Mobility Pilot, C-130J; Mobility Pilot, C-17; Mobility Pilot, KC-10; Mobility Pilot, KC-135; <u>11R</u> Reconnaissance/Surveillance/Electronic Warfare Pilot, E-3; <u>11S</u> Special Operations Pilot, AC-130U; Special Operations Pilot, Air Commando (NSAv, DM); Special Operations Pilot, MC-130H; Special Operations Pilot, U-28; 11T Tanker Pilot, KC-10; Tanker Pilot, SUPT Phase III Instr (T-1/ T-38/T-44)
Fighter pilot	11F	Fighter Pilot, A-10; Fighter Pilot, Air Liaison Officer (ALO); Fighter Pilot, F-15; Fighter Pilot, F-15E; Fighter Pilot, F-16; Fighter Pilot, F-22
Pilot Trainee	92T0	Pilot Trainee
Pilot/pilot trainee	11, 92T0	All Pilots (AFSC 11) and pilot trainees combined
Space, nuclear, and missile	13	Air Battle Manager, AWACS; Air Battle Manager, Mobile Air Control; Airfield Operations; Combat Control; Space and Missile Operations, Missile Combat Crew; Space Operations; Space Operations, Orbital Warfare; Space Operations, Space Access and Sustainment; Space Operations, Space Electronic Warfare
Civil engineer	3E, 32E	<u>3E</u> Electrical Power Production Apprentice/Journeyman/Craftsman; Electrical Systems Apprentice/Craftsman; Emergency Management Journeyman/Craftsman; Engineering Journeyman/Craftsman; Explosive Ordnance Disposal Apprentice/Journeyman/Craftsman/Superintendent; Fire Protection Apprentice/Journeyman/Craftsman; Heating, Ventilation, Air Conditioning, and Refrigeration Apprentice/Journeyman/Craftsman; Operations Management Journeyman; Pavements and Construction Equipment Apprentice/Journeyman/Craftsman; Pest Management Journeyman; Structural Apprentice/Journeyman/Craftsman;

		Water and Fuel Systems Maintenance Apprentice/Journeyman/Craftsman  <u>32E</u> Civil Engineer
Intelligence	1N, 14N	<u>1N</u> All Source Intelligence Analyst Apprentice/Journeyman/Craftsman; Communication Signals Intelligence Journeyman/Craftsman; Cryptologic Language Analyst Apprentice/Journeyman/Craftsman; Cyber Intelligence Craftsman, Analyst; Electronic Signals Intelligence Exploitation Craftsman; Electronic Systems Security Assessment Craftsman; Far East Cryptologic Linguist Apprentice, Korean; Geospatial Intelligence Helper/Journeyman/Craftsman, Imagery Analyst; Germanic Cryptologic Linguist Helper, German; Imagery Analysis Helper/Journeyman/Craftsman; Intelligence Analyst Apprentice/Craftsman, Cryptologic Analysis and Reporting; Mid East Cryptologic Linguist Craftsman, Arabic; Network Intelligence Analyst Journeyman/Craftsman; Romance Cryptologic Linguist Journeyman, Spanish (Latin American); Signals Intelligence Apprentice; Signals Intelligence Journeyman, Communications Analyst; Slavic Cryptologic Linguist Apprentice, Serbo-Croatian; Slavic Cryptologic Linguist Craftsman, Russian  <u>14N</u> Intelligence
<b>Occupational group based on job description</b>	<b>AFSC</b>	
Aircraft maintenance	2A, 21A	<u>2A</u> Aerospace Maintenance Helper/Apprentice, C-18/C-135/E-3/VC-25/VC-137; Aerospace Maintenance Journeyman; Aerospace Maintenance Journeyman, All C-135/C-18/E-3/E-4/KC-10/ VC-25/VC-137; Aerospace Maintenance Journeyman, B-1/B-2/B-52; Aerospace Maintenance Journeyman, C-5/C-9/C-12/C-17/C-20/C-21/C-22/ C 26/C-27/C-130/T-39/T-43; Aerospace Propulsion Apprentice, TF33, CF6, F103, F108, F117, TFE-731, TF39, PW 2040, F138 Jet Engines (Airlift, Special Mission, and B-52 aircraft); Aerospace Propulsion Craftsman; Aerospace Propulsion Craftsman/Journeyman, Turboprop and Turboshaft Propulsion; Aerospace Propulsion Journeyman, F100, F101, F110, F118, F119, F135 Jet Engines; Aerospace Propulsion Journeyman, Jet Engines; Aircraft Fuel Systems Apprentice; Aircraft Hydraulic Systems Journeyman/Craftsman; Aircraft Structural Maintenance Apprentice/Journeyman/Craftsman; Airlift/Special Mission Aircraft Maintenance Apprentice, C-17; Airlift/Special Mission Aircraft Maintenance Craftsman/Superintendent; Airlift/Special Mission Aircraft Maintenance Helper/Journeyman, C-130/C-27J; Helicopter/Tiltrotor Aircraft Maintenance Journeyman/Craftsman; Low Observable Aircraft Structural Maintenance Journeyman; Refuel/Bomber Aircraft Maintenance Craftsman; Refuel/Bomber Aircraft Maintenance Journeyman, Any C-135/E-3/E-8; Remotely Piloted Aircraft Maintenance Journeyman, MQ-1/MQ-9; Tactical Aircraft Maintenance Apprentice/Journeyman, F-15; Tactical Aircraft Maintenance Craftsman; Tactical Aircraft Maintenance Journeyman/Craftsman, F-16/F-117;

		<p>Tactical Aircraft Maintenance Craftsman/Journeyman, General (except F-15/F-16);  Tactical Aircraft Maintenance Helper, F-16;  Tactical Aircraft Maintenance Journeyman, A-10/U-2;</p> <p><u>21A</u>  Aircraft Maintenance</p>
Aircraft crew	12, 13, 1A, 2A	<p><u>12</u>  Airlift Navigator, C-130;  Airlift Navigator, SUNT Instructor;  Bomber Combat Systems Officer, General;  Bomber Navigator, B-1 Defensive Systems Officer (EWO);  Bomber Combat Systems Officer, B-52 WSO;  Bomber Combat Systems Officer, B-52 EWO;  Mobility Combat Systems Officer, KC-135;  Reconnaissance/Surveillance/Electronic Warfare Combat Systems Officer, RC-135;  Reconnaissance/Surveillance/Electronic Warfare Combat Systems Officer, EC-130 EWO;  Special Operations Combat Systems Officer, U-28;  Special Operations Combat Systems Officer, AC-130H EWO;  Trainer Combat Systems Officer, SUNT, WSO;</p> <p><u>13</u>  Air Battle Manager, AWACS;  Air Battle Manager, Mobile Air Control;</p> <p><u>1A</u>  Airborne Battle Management Systems Craftsman, Weapons Director;  Airborne Cryptologic Linguist Craftsman;  Airborne Cryptologic Language Analyst Helper;  Airborne Missions Systems Journeyman;  Airborne Mission Systems Specialist Journeyman/Craftsman/Superintendent;  Airborne Operations Journeyman;  Aircraft Loadmaster Apprentice/Journeyman/Craftsman;  Flight Engineer Craftsman;  In-Flight Refueling Specialist Helper/Apprentice/Craftsman;  Special Mission Aviator Craftsman;</p> <p><u>2A</u>  Airborne Surveillance Radar Systems Craftsman;  Aircraft Metals Technology Craftsman;  Aircrew Egress Systems Journeyman</p>
Ammunition	3E, 2W	<p><u>3E</u>  Explosive Ordnance Disposal Apprentice/Journeyman/Craftsman/Superintendent;</p> <p><u>2W</u>  Aircraft Armament Systems Apprentice, F-15;  Aircraft Armament Systems Apprentice, F-16;  Aircraft Armament Systems Journeyman/Craftsman/Manager;  Munitions Systems Apprentice/Journeyman/Craftsman;</p>
Fuels/petroleum	2A, 2F, 63	<p><u>2A</u>  Aircraft Fuel Systems Journeyman/Craftsman;</p> <p><u>2F</u>  Fuels Apprentice/Journeyman/Craftsman;</p> <p><u>63</u>  Fuel Manager</p>

Electrical/electronics	2A, 2E, 2P, 3D, 3E	<p><u>2A</u> A-10, F-15, and U-2 Avionics Systems Apprentice/Journeyman, Attack Control; A-10, F-15, and U-2 Avionics Systems Journeyman, Communication, Navigation, And Penetration Aids; Aircraft Electrical And Environmental Systems Journeyman/Craftsman; Avionics Test Station And Components Apprentice, Avionics Sensor Systems, All Helicopters and Aircraft; Avionics Test Station And Components Craftsman, Avionics Systems, All Helicopters and Aircraft (Except F-15); Avionics Test Station And Components Craftsman, Avionics Systems, F-15; Avionics Test Station And Components Craftsman, Electronic Warfare Systems, All Helicopters and Aircraft; Avionics Test Station And Components Journeyman, Avionics Systems Bomber/Special Electronic Warfare and Radar Surveillance Integrated Avionics Craftsman; Electronic Warfare Systems; Integrated Avionics Systems (Attack/Special) Journeyman; Integrated Avionics Systems (Heavy) Journeyman/Craftsman, Communication, Navigation, and Mission; Integrated Avionics Systems (Heavy) Journeyman/Craftsman, Instrument And Flight Controls; Mobility Air Forces Integrated Communication/Navigation/Mission Systems Craftsman, Cargo Comm/Counter/Nav Systems; Mobility Air Forces Integrated Communication/Navigation/Mission Systems Craftsman, Tanker Comm/Counter/Nav Systems;</p> <p><u>2E</u> Communications Antenna Systems Apprentice; Communications Cable and Antenna Systems Journeyman; Secure Communications Systems Journeyman;</p> <p><u>2P</u> Precision Measurement Equipment Laboratory Journeyman/Craftsman;</p> <p><u>3D</u> Cable and Antenna Systems Journeyman/Craftsman;</p> <p><u>3E</u> Electrical Power Production Apprentice/Journeyman/Craftsman; Electrical Systems Apprentice/Craftsman</p>
Mechanic/Other maintenance	2A, 2E, 2M, 2T, 3E, 4A	<p><u>2A</u> Aerospace Ground Equipment Apprentice Journeyman/Craftsman/Superintendent; Avionic Sensors Maintenance Apprentice; Nondestructive Inspection Journeyman;</p> <p><u>2E</u> Instrumentation And Telemetry Systems Craftsman</p> <p><u>2M</u> Missile And Space Systems Electronic Maintenance Helper, ICBM; Missile And Space Systems Electronic Maintenance Journeyman; Missile And Space Systems Maintenance Journeyman/Craftsman;</p> <p><u>2T</u> Mission Generation Vehicular Equipment Maintenance Apprentice/Journeyman; Vehicle And Vehicular Equipment Maintenance Craftsman;</p>

		<p>Vehicle Body Maintenance Journeyman;</p> <p><u>3E</u> Heating, Ventilation, Air Conditioning, and Refrigeration Apprentice/Journeyman/Craftsman; Water and Fuel Systems Maintenance Apprentice/Journeyman/Craftsman;</p> <p><u>4A</u> Biomedical Equipment Craftsman</p>
Law enforcement/Security	3P, 31P, 81	<p><u>3P</u> Law Enforcement Apprentice; Law Enforcement Specialist; Security Forces Helper/Apprentice/Journeyman/Craftsman/Manager; Security Forces Apprentice/Journeyman, Military Working Dog Handler; Security Forces Journeyman, Combat Arms;</p> <p><u>31P</u> Security Forces;</p> <p><u>81</u> Security Specialist</p>
Radio/Communications /Radar	1C, 2A, 2E, 3C, 3D, 33S	<p><u>1C</u> Command and Control Battle Management Operations Apprentice/Journeyman/Craftsman; Command and Control Battle Management Operations Craftsman, Weapons Director; Space Systems Operations Journeyman;</p> <p><u>2A</u> A-10, F-15, and U-2 Avionics Systems Helper, Communication, Navigation, And Penetration Aids; Communication And Navigation Systems Craftsman;</p> <p><u>2E</u> Communications Systems Superintendent; Ground Radar Systems Craftsman; Ground Radio Communications Helper/Apprentice/Craftsman; Satellite, Wideband and Telemetry Systems Journeyman/Craftsman;</p> <p><u>3C</u> Network Integration Journeyman/Craftsman; Radio Communications Systems Craftsman;</p> <p><u>3D</u> Ground Radar Systems Craftsman; RF Transmission Systems Journeyman/Craftsman;</p> <p><u>33S</u> Communications and Information</p>
Medical	42, 44, 45, 46, 47, 48, 4C, 4D, 4F, 4N, 4P, 4R, 4Y, 92M1	<p><u>42</u> Clinical Social Worker; Physician Assistant;</p> <p><u>44</u> Allergist; Chief, Hospital/Clinic Services; Diagnostic Radiologist;</p>



		<p>Emergency Services Physician, Emergency Medicine Specialist;  Family Physician;  General Practice Physician;  Internist;</p> <p><u>45</u>  Otorhinolaryngologist;</p> <p><u>46</u>  Clinical Nurse;  Clinical Nurse, Critical Care;  Clinical Nurse, Neonatal Intensive Care;</p> <p><u>47</u>  Dentist;  Dentist, General Clinical;  Oral and Maxillofacial Surgeon;  Oral and Maxillofacial Surgeon, Facial Esthetics;  Periodontist;</p> <p><u>48</u>  General Medicine Officer (GMO) Flight Surgeon;</p> <p><u>4C</u>  Mental Health Service Journeyman;</p> <p><u>4D</u>  Diet Therapy Journeyman;</p> <p><u>4F</u>  Aeromedical Journeyman/Craftsman;</p> <p><u>4N</u>  Aerospace Medical Service Apprentice/Journeyman/Craftsman;  Aerospace Medical Service Craftsman, Independent Duty Medical Technician;  Aerospace Medical Service Journeyman, Allergy/immunology;  Surgical Service Journeyman/Craftsman;</p> <p><u>4P</u>  Pharmacy Craftsman;</p> <p><u>4R</u>  Diagnostic Imaging Craftsman;  Diagnostic Imaging Craftsman, Diagnostic Medical Sonography;  Diagnostic Imaging Craftsman, Magnetic Resonance Imaging;  Diagnostic Imaging Journeyman;</p> <p><u>4Y</u>  Dental Assistant Apprentice;  Dental Laboratory Craftsman;</p> <p><u>92M1</u>  Uniformed Services University of Health Sciences (USUHS) Student</p>
Administrative/Support	13,16,17,18,20, 21,27, 43,51,60,62,63,	<p><u>13</u>  Airfield Operations;  Combat Control;</p>

	<p>64, 65, 97, 10C, 14N, 1C, 1N, 1W, 21R, 2E, 2G, 2R, 2S, 2T, 32E, 33S, 34M, 36M, 36P, 38F, 38P, 3A, 3C, 3D, 3M, 3N, 3S, 3V, 41A, 4A, 4E, 52R, 5R, 6C, 6F, 7S, 8R, 8M000, 9E</p>	<p>Space and Missile Operations, Missile Combat Crew; Space Operations; Space Operations, Orbital Warfare; Space Operations, Space Access and Sustainment; Space Operations, Space Electronic Warfare;</p> <p><u>16</u> Air Force Operations Staff Officer; Foreign Area Officer (FAO), Attache;</p> <p><u>17</u> Warfighter Communications Operations, Expeditionary Communications Operations; Warfighter Communications Operations, Network Operations;</p> <p><u>18</u> Attack Remotely Piloted Aircraft Pilot, MQ-1;</p> <p><u>20</u> Signal Intelligence Analysis Specialist;</p> <p><u>21</u> Supply;</p> <p><u>27</u> Tactical Air Command &amp; Control Specialist;</p> <p><u>43</u> Bioenvironmental Engineer, General; Bioenvironmental Engineer, Health Physics;</p> <p><u>51</u> Judge Advocate;</p> <p><u>60</u> Air Transportation Manager;</p> <p><u>62</u> Developmental Engineer, Aeronautical; Developmental Engineer, Computer Systems; Developmental Engineer, Electrical/Electronic;</p> <p><u>63</u> Acquisition Manager;</p> <p><u>64</u> Contracting;</p> <p><u>65</u> Financial Management;</p> <p><u>97</u> Executive Officer</p> <p><u>10C</u> Operations Commander;</p>
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	<p><u>14N</u> Intelligence;</p> <p><u>1C</u> Air Traffic Control Helper/Apprentice/Journeyman/Craftsman/Manager; Combat Control Journeyman/Craftsman/Superintendent; Command and Control Operations Craftsman;</p> <p><u>1N</u> All Source Intelligence Analyst Apprentice/Journeyman/Craftsman; Communication Signals Intelligence Journeyman/Craftsman; Cryptologic Language Analyst Apprentice/Journeyman/Craftsman; Cyber Intelligence Craftsman, Analyst; Electronic Signals Intelligence Exploitation Craftsman; Electronic Systems Security Assessment Craftsman; Far East Cryptologic Linguist Apprentice, Korean; Geospatial Intelligence Helper/Journeyman/Craftsman, Imagery Analyst; Germanic Cryptologic Linguist Helper, German; Imagery Analysis Helper/Journeyman/Craftsman; Intelligence Analyst Apprentice/Craftsman, Cryptologic Analysis and Reporting; Mid East Cryptologic Linguist Craftsman, Arabic; Network Intelligence Analyst Journeyman/Craftsman; Romance Cryptologic Linguist Journeyman, Spanish (Latin American); Signals Intelligence Apprentice; Signals Intelligence Journeyman, Communications Analyst; Slavic Cryptologic Linguist Apprentice, Serbo-Croatian; Slavic Cryptologic Linguist Craftsman, Russian;</p> <p><u>1W</u> Weather Journeyman/Craftsman; Weather Craftsman, Forecaster;</p> <p><u>21R</u> Logistics Readiness;</p> <p><u>2E</u> Communications Systems Superintendent; Ground Radar Systems Journeyman; Network Infrastructure Systems Journeyman/Craftsman; Visual Imagery and Intrusion Detection Systems Craftsman; Voice Network Systems Apprentice/Journeyman/Craftsman;</p> <p><u>2G</u> Logistics Plans Craftsman;</p> <p><u>2R</u> Maintenance Management Production Journeyman/Craftsman;</p> <p><u>2S</u> Materiel Management Apprentice/Journeyman/Craftsman; Supply Systems Analysis Apprentice;</p> <p><u>2T</u> Air Transportation Superintendent;</p> <p><u>32E</u></p>
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	<p>Civil Engineer;</p> <p><u>33S</u> Communications and Information;</p> <p><u>34M</u> Services;</p> <p><u>36M</u> Mission Support;</p> <p><u>36P</u> Personnel;</p> <p><u>38F</u> Force Support;</p> <p><u>38P</u> Personnel; Personnel, Analyst;</p> <p><u>3A</u> Administration Journeyman/Craftsman; Knowledge Operations Management Journeyman/Craftsman/Superintendent;</p> <p><u>3C</u> Communications - Computer Systems Operations Apprentice/Journeyman/Craftsman; Communications - Computer Systems Planning And Implementation Craftsman; Communications - Computer Systems Programming Helper/Journeyman/Craftsman;</p> <p><u>3D</u> Airfield Systems Craftsman; Client Systems Apprentice/Craftsman; Cyber Surety Journeyman/Craftsman; Cyber Systems Operations Helper/Journeyman; Cyber Transport Systems Journeyman/Craftsman;</p> <p><u>3M</u> Services Apprentice/Journeyman/Craftsman;</p> <p><u>3N</u> Broadcast Journalist Apprentice; Graphic Arts Craftsman; Photojournalist Journeyman; Premier Band - The USAF Band Craftsman; Regional Band Craftsman, Trombone;</p> <p><u>3S</u> Education And Training Craftsman/Superintendent; Personnel Journeyman/Craftsman;</p> <p><u>3V</u> Video Craftsman;</p> <p><u>41A</u> Health Services Administrator;</p>
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		<p><u>4A</u> Health Services Management Helper/Journeyman/Craftsman; Medical Materiel Journeyman/Craftsman;</p> <p><u>4E</u> Public Health Craftsman;</p> <p><u>52R</u> Chaplain, Roman Catholic;</p> <p><u>5R</u> Religious Affairs Craftsman;</p> <p><u>6C</u> Contracting Journeyman/Craftsman;</p> <p><u>6F</u> Financial Management and Comptroller Journeyman/Craftsman/Superintendent;</p> <p><u>7S</u> Special Investigations Craftsman;</p> <p><u>8R</u> Enlisted Accessions Recruiter; Second Tier Recruiter; Third Tier Recruiter;</p> <p><u>8M000</u> Postal;</p> <p><u>9E</u> Command Chief Master Sergeant</p>
Miscellaneous/Other/ Unknown	45, 61, 62, 15W, 1C, 1P, 1S, 1T, 1U, 2A, 2E, 2T, 2W, 3E, 4B, 8F, 9S, 90G0, 9T000	<p><u>45</u> Aerospace Propulsion Specialist;</p> <p><u>61</u> Operations Research Analyst; Physicist/Nuclear Engineer; Scientist, Physics/Nuclear Engineering;</p> <p><u>62</u> Developmental Engineer, Mechanical;</p> <p><u>15W</u> Weather and Environmental Sciences; Weather, Special Operations Weather;</p> <p><u>1C</u> Combat Control Helper/Journeyman; Tactical Air Control Party (TACP) Apprentice/Journeyman/Craftsman;</p> <p><u>1P</u> Aircrew Flight Equipment Apprentice/Journeyman;</p> <p><u>1S</u></p>

	<p>Safety Craftsman;</p> <p><u>1T</u> Aircrew Life Support Journeyman; Survival, Evasion, Resistance, Escape (SERE) Specialist Apprentice;</p> <p><u>1U</u> Sensor Operator Craftsman;</p> <p><u>2A</u> A-10, F-15, and U-2 Avionics Systems Helper, Attack Control; Aerospace Ground Equipment Helper; Aircraft Electrical And Environmental Systems Helper; Aircraft Fabrication Superintendent; Aircraft Guidance And Control Systems Apprentice/Craftsman; Aircraft Hydraulic Systems Craftsman; Aircrew Egress Systems Apprentice/Craftsman; Avionics Guidance And Control Systems Craftsman; Avionics Test Station And Components Helper, Avionics Sensor Systems and Electronic Warfare Systems; Avionics Test Station And Components Helper, Avionics Systems; Avionics Test Station And Components Helper, Avionics Systems, F-15; Bomb-navigation Systems; Electronic Warfare Systems Journeyman; Integrated Avionics Systems (Heavy) Apprentice, Instrument And Flight Controls; Integrated Avionics Systems (Heavy) Helper, Instrument And Flight Controls; Nondestructive Inspection Craftsman; Survival Equipment Journeyman;</p> <p><u>2E</u> Automatic Tracking Radar;</p> <p><u>2T</u> Air Transportation Helper/Apprentice/Journeyman/Craftsman; Ground Transportation Apprentice/Journeyman/Craftsman; Traffic Management Journeyman/Craftsman;</p> <p><u>2W</u> Aircraft Armament Systems Helper, F-16; Nuclear Weapons Helper/Apprentice;</p> <p><u>3E</u> Emergency Management Journeyman/Craftsman; Engineering Journeyman/Craftsman; Operations Management Journeyman; Pest Management Journeyman;</p> <p><u>4B</u> Bioenvironmental Engineering Apprentice/Craftsman;</p> <p><u>8F</u> First Sergeant;</p> <p><u>9S</u> Scientific Applications Specialist;</p>
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	<u>90G0</u> General Officer;
	<u>9T000</u> Basic Enlisted Airman

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**Supplemental Table 2. Case-control associations between pilot occupation and TGCT using different reference groups**

Occupation (AFSC)	Cases	Controls	OR (95% CI)
	(N=530)	(N=530)	
	N	N	
<b>Pilot (11) at serum sample and at case diagnosis</b>			
All enlisted (non-pilots)	410	435	Reference
Non-pilot officer	99	87	1.20 (0.82-1.76)
Pilot officer	21	8	<b>2.90 (1.22-6.89)</b>
<b>Pilot (11) at serum sample and at case diagnosis</b>			
All enlisted (non-pilots)	410	435	0.94 (0.57-1.23)
Non-pilot officer	99	87	Reference
Pilot officer	21	8	2.43 (0.96-6.13)
<b>Pilot/pilot trainee (11, 92T0) at serum sample and at case diagnosis</b>			
All enlisted (non-pilots)	410	435	Reference
Non-pilot officer	79	70	1.20 (0.81-1.79)
Pilot officer	41	25	<b>1.96 (1.10-3.48)</b>
<b>Pilot/pilot trainee (11, 92T0) at serum sample and at case diagnosis</b>			
All enlisted (non-pilots)	410	435	0.83 (0.56-1.24)
Non-pilot officer	79	70	Reference
Pilot officer	41	25	1.63 (0.86-3.07)

All conditional logistic regression models adjusted for number of deployments before case diagnosis (0, 1, 2+)

Abbreviations: AFSC = Air Force Specialty Code; OR = Odds Ratio; CI = Confidence Interval; TGCT = Testicular germ cell tumors

Bold indicative of statistical significance



**Supplemental Table 3. Case-control associations between occupation at case diagnosis and TGCT excluding 202 airmen with <3 years of service**

Occupation (AFSC)	Cases	Controls	OR (95% CI)
	(N=428)	(N=430)	
	N	N	
Aircrew operations (1A)	13	20	0.73 (0.35-1.52)
Command and control systems operations (1C)	16	9	1.83 (0.80-4.15)
Aerospace maintenance (2A)	76	76	1.01(0.71-1.44)
Fuels (2F)	11	6	1.98 (0.72-5.40)
Material management (2S)	9	8	1.17 (0.45-3.05)
Transportation (2T)	17	18	1.03 (0.52-2.06)
Munitions and weapons (2W)	20	22	0.90 (0.48-1.68)
Communication-Electronics/Wire Systems Maintenance (2E)	9	20	0.46 (0.21-1.01)
Communications/network (3C)	10	7	1.44 (0.51-4.05)
Cyberspace support (3D)	17	16	1.09(0.52-2.27)
Security forces (3P)	26	31	0.91 (0.52-1.61)
Fire protection (3E7X1)	9	5	1.73 (0.57-5.18)
Aerospace medical/surgical service (4N)	7	15	0.46 (0.19-1.14)
Pilot (11)	36	22	<b>1.80 (1.02-3.18)</b>
Fixed-wing pilot (11A, 11K, 11M, 11R, 11S, 11T)	20	16	1.29 (0.65-2.56)
Fighter pilot (11F)	13	5	2.72 (0.96-7.70)
Pilot Trainee (92T0)	4	2	-
Pilot/pilot trainee (11, 92T0)	40	24	<b>1.76 (1.01-3.05)</b>
Space, nuclear, and missile (13)	10	12	0.89 (0.38-2.06)
Civil engineer (3E, 32E) <sup>1</sup>	28	33	0.86 (0.50-1.45)
Intelligence (1N, 14N) <sup>1</sup>	16	20	0.78 (0.39-1.54)
<b>Occupational group based on job description (AFSC)</b>			
Aircraft maintenance (2A, 21A) <sup>1</sup>	53	40	1.46 (0.94-2.27)
Aircraft crew (12, 13, 1A, 2A) <sup>1</sup>	22	37	0.59 (0.33-1.05)
Ammunition (3E, 2W)	23	34	0.96 (0.53-1.73)
Fuels/petroleum (2A, 2F, 63) <sup>1</sup>	15	9	2.04 (0.84-4.96)
Electrical/electronics (2A, 2E, 2P, 3D, 3E)	19	26	0.66 (0.35-1.26)
Mechanic/Other maintenance (2A, 2E, 2M, 2T, 3E, 4A)	18	26	0.63 (0.33-1.19)
Law enforcement/Security (3P, 31P, 81) <sup>1</sup>	28	31	1.04 (0.60-1.83)
Radio/Communications/Radar (1C, 2A, 2E, 3C, 3D, 33S) <sup>1</sup>	21	22	0.94 (0.51-1.75)
Medical <sup>1,2</sup>	27	25	1.07 (0.60-1.93)
Administrative/Support <sup>1,3</sup>	120	108	1.13 (0.82-1.56)
Miscellaneous/Other/Unknown <sup>1,4</sup>	30	39	0.78 (0.47-1.29)

All conditional logistic regression models adjusted for number of deployments before case diagnosis (0, 1, 2+)

<sup>1</sup>Models additionally adjusted for grade at case diagnosis

<sup>2</sup>Medical AFSCs: 42, 44, 45, 46, 47, 48, 4C, 4D, 4F, 4N, 4P, 4R, 4Y, 92M1

<sup>3</sup>Administrative/Support AFSCs: 13,16,17,18,20, 21,27, 43,51,60,62,63, 64, 65, 97, 10C, 14N, 1C, 1N, 1W, 21R, 2E, 2G, 2R, 2S, 2T, 32E, 33S, 34M, 36M, 36P, 38F, 38P, 3A, 3C, 3D, 3M, 3N, 3S, 3V, 41A, 4A, 4E, 52R, 5R, 6C, 6F, 7S, 8R, 8M000, 9E

<sup>4</sup>Miscellaneous/Other/Unknown AFSCs: 45, 61, 62, 15W, 1C, 1P, 1S, 1T, 1U, 2A, 2E, 2T, 2W, 3E, 4B, 8F, 9S, 90G0, 9T000

**Abbreviations:** AFSC =Air Force Specialty Code; OR = Odds Ratio; CI = Confidence Interval; TGCT = Testicular germ cell tumors

Bold indicative of statistical significance

NOTE: Comparison (non-exposed) group is everyone not in selected occupation/occupational group

**Supplemental Table 4. Case-control associations between occupation at case diagnosis and TGCT among U.S. Airforce servicemen without missing height information**

Occupation (AFSC)	Cases	Controls	OR (95% CI)	OR <sup>1</sup> (95% CI)
	(N=340)	(N=349)		
Aircrew operations (1A)	8	13	0.75 (0.30-1.86)	0.73 (0.29-1.82)
Command and control systems operations (1C)	9	11	0.63 (0.25-1.64)	0.60 (0.23-1.55)
Aerospace maintenance (2A)	80	70	1.33 (0.91-1.94)	1.33 (0.91-1.95)
Fuels (2F)	9	8	1.33 (0.49-3.58)	1.32 (0.49-3.58)
Material management (2S)	7	8	0.92 (0.33-2.56)	0.95 (0.34-2.64)
Transportation (2T)	16	19	0.88 (0.43-1.79)	0.88 (0.43-1.81)
Munitions and weapons (2W)	20	33	0.55 (0.30-1.01)	0.55 (0.30-1.02)
Communication-Electronics/Wire Systems Maintenance (2E)	9	9	1.01 (0.40-2.56)	1.04 (0.41-2.62)
Communications/network (3C)	5	8	0.56 (0.16-1.92)	0.59 (0.17-2.03)
Cyberspace support (3D)	22	18	1.10 (0.55-2.20)	1.13 (0.56-2.26)
Security forces (3P)	36	34	1.06 (0.63-1.78)	1.06 (0.63-1.79)
Fire protection (3E7X1)	11	4	3.54 (0.98-12.73)*	3.28 (0.91-11.88)*
Aerospace medical/surgical service (4N)	8	9	1.21 (0.43-3.36)	1.20 (0.43-3.34)
Pilot (11)	3	4	-	-
Fixed-wing pilot (11A, 11K, 11M, 11R, 11S, 11T)	1	3	-	-
Fighter pilot (11F)	2	1	-	-
Pilot Trainee (92T0)	3	1	-	-
Pilot/pilot trainee (11, 92T0)	6	5	2.47 (0.49-12.5)	2.36 (0.46-12.07)
Space, nuclear, and missile (13)	3	3	-	-
Civil engineer (3E, 32E) <sup>2</sup>	31	24	1.43 (0.80-2.53)	1.38 (0.78-2.46)
Intelligence (1N, 14N) <sup>2</sup>	13	19	0.73 (0.35-1.55)	0.75 (0.35-1.58)
<b>Occupational group based on job description (AFSC)</b>				
Aircraft maintenance (2A, 21A) <sup>2</sup>	50	36	1.42 (0.90-2.26)	1.44 (0.91-2.30)
Aircraft crew (12, 13, 1A, 2A) <sup>2</sup>	13	18	0.84 (0.38-1.82)	0.82 (0.37-1.79)
Ammunition (3E, 2W)	21	32	0.61 (0.34-1.11)	0.62 (0.34-1.11)
Fuels/petroleum (2A, 2F, 63) <sup>2</sup>	12	11	1.27 (0.55-2.97)	1.25 (0.54-2.93)
Electrical/electronics (2A, 2E, 2P, 3D, 3E)	18	25	0.91 (0.43-1.94)	0.94 (0.44-2.00)
Mechanic/Other maintenance (2A, 2E, 2M, 2T, 3E, 4A)	16	19	0.76 (0.34-1.68)	0.76 (0.34-1.69)
Law enforcement/Security (3P, 31P, 81) <sup>2</sup>	36	34	1.08 (0.64-1.82)	1.08 (0.64-1.82)
Radio/Communications/Radar (1C, 2A, 2E, 3C, 3D, 33S) <sup>2</sup>	17	12	1.26 (0.57-2.78)	1.30 (0.58-2.88)
Medical <sup>2,3</sup>	21	20	1.19 (0.53-2.67)	1.18 (0.53-2.67)
Administrative/Support <sup>2,4</sup>	79	86	0.81 (0.55-1.18)	0.82 (0.56-1.20)
Miscellaneous/Other/Unknown <sup>2,5</sup>	35	37	1.06 (0.62-1.83)	1.04 (0.60-1.79)

All conditional logistic regression models adjusted for number of deployments before case diagnosis (0, 1, 2+)

<sup>1</sup>Models additionally adjusted for height in centimeters

<sup>2</sup>Models additionally adjusted for grade at case diagnosis

<sup>3</sup>Medical AFSCs: 42, 44, 45, 46, 47, 48, 4C, 4D, 4F, 4N, 4P, 4R, 4Y, 92M1

<sup>4</sup>Administrative/Support AFSCs: 13, 16, 17, 18, 20, 21, 27, 43, 51, 60, 62, 63, 64, 65, 97, 10C, 14N, 1C, 1N, 1W, 21R, 2E, 2G, 2R, 2S, 2T, 32E, 33S, 34M, 36M, 36P, 38F, 38P, 3A, 3C, 3D, 3M, 3N, 3S, 3V, 41A, 4A, 4E, 52R, 5R, 6C, 6F, 7S, 8R, 8M000, 9E

<sup>5</sup>Miscellaneous/Other/Unknown AFSCs: 45, 61, 62, 15W, 1C, 1P, 1S, 1T, 1U, 2A, 2E, 2T, 2W, 3E, 4B, 8F, 9S, 90G0, 9T000

\*Odds ratios based on <5 controls with fire protection jobs

**Abbreviations:** AFSC = Air Force Specialty Code; OR = Odds Ratio; CI = Confidence Interval; TGCT = Testicular germ cell tumors

Bold indicative of statistical significance

NOTE: Comparison (non-exposed) group is everyone not in selected occupation/occupational group