

76 SMXG (Software Maintenance Group) at Tinker AFB is Hiring!

The 76 SMXG (Software Maintenance Group) at Tinker Air Force Base located in Oklahoma City, OK is hiring talented Computer Scientists, Computer Engineers, and Electrical Engineers to fill our civilian S&E positions. As part of the Oklahoma City Air Logistics Complex (OC-ALC), Tinker is only minutes from the city life in downtown Oklahoma City, the college-towns of Norman and Edmond, and the wide open spaces of smaller rural communities.

The 76 SMXG is the largest electrical/computer engineering and computer scientist employer at Tinker AFB. We are home to over 1000 personnel who provide expert hardware, software, cybersecurity, and engineering support for the B-1, B-2, B-52, E-3 aircraft and more. One of our new and exciting areas of development will be for the new KC-46 Tanker! Our teams consist of multiple squadrons with differing areas of technical focus such as Engine Testing, Trainers & Simulation Software, Avionics Testing Development, Mission Planning, Systems Development, Industrial Automation, and Lab Simulation/Systems Integration Labs.

Apply your programming and engineering skills in our growing organization. Utilize your knowledge of the sciences, mathematics, and coding to support the U.S. Air Force! If this sounds like a place for you, email 76SMXG.Tinker.Careers@us.af.mil with your resume and transcript and we will be in touch.



Areas of Focus

	<p><u>Operational Programs / Avionics Software</u></p> <p>Engineers and Computer Scientists develop and sustain operational programs and software tools on various aircraft and weapon systems on the B-2, B-1, B-52, E-3, KC-10/KC-135, KC-46 and trainer aircraft. Workload includes but not limited to: Open Missions System (OMS) architecture, Mission Planning software, Mission Computing software, Operational Flight Programs, Data Management Systems, Cruise Missile Software, Trainers & Simulators, MQ-9 Reaper, and Diagnostic tools. Skills we are looking for: Knowledge of C, C++, C#, Java, iOS/Android development, Visual Studio .NET, VBA, JavaScript, BASH/BATCH scripting, Ada, Jovial, Assembly, Linux OS, object-oriented programming, Agile development process, and software troubleshooting/testing.</p>
	<p><u>Avionics Systems Engineering</u></p> <p>Engineers and Computer Scientists utilize their hardware and software skills to develop and sustain avionics/weapons systems and associated tools on the B-2, B-1, B-52, E-3, KC-46 and trainer aircraft. Workload includes but not limited to: Pilot Evaluation Simulators (PES), Threat Emitter Location Systems (TELS), Radar Operational Flight Programs (OFP), Open Missions System (OMS) architecture, Mission Planning systems, Air traffic control systems, navigation systems, mission computing systems, MQ-9 Reaper and space fence. Skills we are looking for: Knowledge of C, C++, C#, Java, circuits theory, electronic warfare concepts, Radar and antenna theory, communication systems, MatLab, LabView, Linux, Ada, Jovial, scripting, VBA, SolidWorks, IBM Doors/Clearcase/Clearquest, PowerHawks, and general software/hardware troubleshooting.</p>
	<p><u>Avionics / Diagnostic Hardware</u></p> <p>Engineers develop and sustain Engine Testing Programs and Test Program Sets (TPS) supporting B-1, B-2, C-17, B-52, Air Launch Cruise Missiles (ALCM) and common avionics. Develop hardware and software to diagnose component failures in avionics systems and perform technology updates on testing systems. Engineers and computer scientists that sustain the E-3 surveillance radar computer program ensure that the aircraft's airborne surveillance, command and control platform is mission-ready. Skills we are looking for: Analog and digital circuit analysis and troubleshooting, PCB hardware design, 3-D printing, Radar, Radio Frequency (RF) theory and design, digital signal processing, reverse engineering, AutoCAD, knowledge of C++ and IEEE ATLAS.</p>

Engineering Process Management

Engineers and Computer Scientists in the Engineering Process Management section establish the foundation for the management of processes used by 76th Software Maintenance Group (SMXG) personnel in providing engineering and support services to our customers. This includes the deployment, maintenance, audit, benchmarking, and measurement of engineering, project management, and support processes. **Skills we are looking for:** Knowledge and experience related to process improvement, CMMI for software development, Agile development process, ISO 9001, AS 9110, Lean / 6 Sigma, technical writing, and software project management.

Information Systems/Systems Administration

Engineers and Computer Scientists develop and sustain various web-based, remotely-controlled, network-based systems for the Air Force. Workload includes but not limited to: air traffic control systems, processing/storage of mission planning and threat emitter data, and developing tablet and mobile applications. Information Technology Specialists install, configure, and support an organization's LAN, WAN, Internet systems, or a segment of a network system. Monitor networks to ensure network availability to all system users and perform necessary maintenance to support network availability. Monitor, test, troubleshoot, and correct website performance issues. Perform network modeling, analysis, planning, and coordination for network and data communications hardware and software systems. Administer network security measures in accordance with the NIST Risk Management Framework. **Skills we are looking for:** Knowledge of JavaScript, web development, SQL, Oracle, Agile development process, iOS/Android mobile application development, SharePoint programming, VBA, C#, .NET framework, VOIP/SIP (Digital Telephony), Cisco IOS, Linux OS, Netapp, database management, web services, CSS, HTML, PHP, XML, BASH/BATCH scripting, Team Foundation server, networking, and CompTIA security+ training. Enterprise Network infrastructure design and management, Windows and Linux Server installation and administration, Enterprise IT management.

Facilities Engineering

Engineers that work for the Facilities Support Team are responsible for the standup of new facility infrastructure as well as maintenance and repair support of current facilities. They usually have a background in facility repair/maintenance, HVAC systems, electrical systems, facility design and planning, as well as program management. We are looking for engineers in the ME, EE, or IE degree fields. **Skills we are looking for:** AutoCAD, Microsoft Office, experience in HVAC systems, electrical distribution systems, program management, teamwork, leadership, briefing upper management.

Cybersecurity /Software Assurance

The cybersecurity team supports the development, management and sustainment of cybersecurity systems that aim to protect critical infrastructure entities. Computer scientists working for the software assurance team will determine processes and procedures to verify that software products developed are free of vulnerabilities, either intentionally or unintentionally designed or inserted throughout the software lifecycle. **Skills we are looking for:** Background in IT/cybersecurity, securing wired/wireless networks and computer systems, IT troubleshooting, scripting, requirements analysis, CompTIA security+ certification, analyzing and fixing vulnerabilities. Attained or ability to attain CISSP/CSSLP certification (levels I – III), familiarity with software testing tools such as Coverity and HP Fortify, knowledge or experience analyzing software threats, vulnerabilities, and implementing countermeasures.

