



## US Army Aviation and Missile Research, Development, and Engineering Center

# Software Engineering Directorate

The AMRDEC Software Engineering Directorate is a recognized leader in Army software engineering, supporting the acquisition, research, development and sustainment of some of the Nation's most sophisticated weapon systems. SED practices state-of-the-art software development approaches leveraging software automation, domain specific languages, software architecture modeling, reuse and reengineering technologies. SED maintains expertise in software reuse, software metrics, post deployment software support, process improvement, computer resource margins analysis, risk management and many other areas.

Home of The Army Game Studio, SED develops games, comics and apps to showcase the true life of a Soldier by exploring Army values, careers and technology. Artists, Soldiers and gaming experts collaborate in the studio to bring the reality of being a Soldier to life.

The SED main campus consists of seven buildings containing offices, laboratories, conference rooms, and many specialized workspaces. These facilities total over 480,000 square feet of space, and provide a unique platform to perform Interoperability Weapon System Development, Verification/Validation and Testing.

### JOINT INTEROPERABILITY TESTING AND ENGINEERING

SED hosts many tactical hardware and software laboratories, and provides weapon systems developers and testers with the highest quality support in the areas of joint interoperability testing and engineering. As a participant in the Army Interoperability Network, SED performs periodic tests with the Joint Interoperability Test Command and other Joint Tactical Air Operations participants. Additionally, SED is the tactical Army

participant in the Theater Missile Defense system Exerciser program.

### SOFTWARE LIFECYCLE SUPPORT

SED specializes in software support for aviation and missile systems. It is one of only three centers established to provide life cycle support to battlefield automated systems, and is currently responsible for maintaining over 36 million lines of tactical and system support code. SED has established a software sustainment environment which addresses project specific hardware, software, documentation, configuration management, software quality assurance and fielding.



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