



## Armament Software Engineering Center

ARDEC's Armament Software Engineering Center (Armament SEC) is an Army Materiel Command Chartered Life Cycle Software Engineering Center. The Armament SEC provides the US Soldier, Army, DoD, and other customers a Center of Excellence for Software Engineering and Software Acquisition support services for weapon systems, training devices, and combat support systems throughout the entire system life cycle. The Armament SEC is housed in a 78,000 square foot state-of-the-art facility at Picatinny Arsenal, New Jersey.



The Armament SEC applies a rigorous systems engineering approach to software development to include requirements definition/analysis, architectural design, systems software design and analysis, software engineering and integration, software verification testing, software fielding, software acquisition support, configuration management, and process assurance towards weapons and munitions, training devices, and chemical/biological detectors. When systems are no longer in production, the Armament SEC conducts Post Production Software Support (PPSS) services to maintain the software

and software baselines for Army fielded systems. Additional software development and software acquisition support programs of the Armament SEC include: CBRNE Processing Group (CPG), Common Remotely Operated Weapon Station (CROWS), Common Controller (CC), SPIDER Networked Munitions; Ground Combat Vehicle (GCV); Multi-purpose Integrated Chemical Agent Detector (MICAD); M109A6 Paladin; M777 Towed Artillery Digitization; M95/M96 Mortar Fire Control System (MFCS); MFCS-Dismounted; Lightweight Handheld Mortar Ballistic computer (LH MBC); Excalibur; Portable Excalibur Fire Control System (PEFCS).



The Armament SEC was the first organization to achieve a Capability Maturity Model Integration<sup>®</sup> (CMMI<sup>®</sup> - a set of engineering best practices maintained by the Software Engineering Institute at Carnegie Mellon University) Maturity Level 3 for systems engineering, software engineering, and acquisition disciplines in February 2002. In June 2006 the Armament SEC became the first DoD organization to receive a CMMI<sup>®</sup> Maturity Level 5 rating in systems engineering, software engineering, and supplier sourcing.

Following a reassessment, in May 2010 the Armament Software Engineering Center became the first U.S. Government organization to achieve Maturity Level 5 in CMMI<sup>®</sup> V1.2 for Development. Adhering to CMMI<sup>®</sup> best practices has enabled the Armament SEC to consistently develop and deliver quality products within cost and schedule estimates. The consistent delivery of quality products has in turn increased customer satisfaction and made our organization a first choice provider for software development. Through the continued optimization of its quality processes, the Armament SEC sustains lean and cost efficient processes that ensure it maintains the highest level of responsiveness to customer needs.



### Point of Contact

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