



DEVCOM
ARMAMENTS
CENTER

VIRTUAL TEST AND TRAINING ENVIRONMENT (VTTE) LAB

LABORATORY INFORMATION FACT SHEET

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The Virtual Test and Training Environment Laboratory provides capability for research on virtualized digital twins for functional emulation and visual 3D representations of armament platforms that are leveraged into interactive test and training products and provides development and representation testing of 3D interactive computer based trainers classrooms or unit level training of Soldier.

TECHNOLOGY/FACILITY DESCRIPTION:

The lab space contains computers to represent a 30 student stations classroom and desktop space to setup at unit training kits for high fidelity simulations of fire control systems and platforms within computer based trainer products, and with standalone emulations to support bench level fire control testing. The lab equipment is able to run software applications that immerse the students through a computer, tablet, VR headset or AR headset in a virtual world containing high fidelity 3D models of weapon and armament systems for purposes of collective crew operations, maintenance and gunnery training. Weapon systems currently include Paladin M109A6/M109A7, M777A3, LAV ATWS, Abrams M1A2 SEP V2, M1A2 SEP V3, and M119A3. The staff includes computer scientists, engineers, artists, animators, technicians, and contractors experienced with creating and maintaining virtualized functional emulations and 3D visual representations in a collaborative environments.

