

Applied Research Associates, Inc. (ARA) is an international research and engineering company recognized for providing technically excellent solutions to complex and challenging problems. We are an employee owned company with over 1,100 employees operating in 20 states and in Canada. Fully 80% of our employee owners are Engineers or Scientists. ARA's unmanned systems and security products division in Randolph VT has fielded nearly 50,000 unattended ground sensors to the US military since 2012 and over 150 robotic off-road construction equipment for counter IED and unexploded ordnance applications.

ARA's newly released Pathfinder footstep detection sensor incorporates numerous lessons learned from combat force protection activities. These sensors act as a remote doorbell sending an alert to friendly forces from miles away preventing surprise attacks and identifying suspicious enemy activities. The Pathfinder alerts automatically cue fixed and aerostat mounted cameras as a "slew to cue" function or sends alert coordinates to UAVs that can then overfly the target in a "fly to cue" function in both instances putting eyes on target.

ARA has fielded to the US military integrated base defense hardware and software that integrate EO/IR camera with ground radar tracking systems creating a wide area defense capability that significantly reduces the load on the operators.

ARA has fielded to the US military robotic solutions that quickly and cost effectively converts off-road vehicles into unmanned robotic systems. Our robotic applique kits have automated Dozers, Skid-Steer Loaders, Front End Loaders, Excavators, Feller-Bunchers, Mulchers and All-Terrain Vehicles. ARA works closely with multiple Original Equipment Manufacturers in the automotive industry to deliver high quality robotic and autonomous systems used to protect operators from explosive, chemical, radiation and other hazards.