



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

U.S. Army Research, Development and Engineering Command

U.S. Army Research Laboratory

Sensors Technology Areas of Interest

Objective: To provide advance planning information regarding ARL Technology areas of interest. Note: The information provided is not a solicitation, a request for proposal or quotation, an invitation for bids or a broad agency announcement.

Requested Innovation: Entity Identification

Description: There is a significant need to improve the capability to identify entities (e.g. personnel ID and Combat ID) on the battlefield and area of operations - particularly for systems on air platforms to reduce potential for friendly fire, collateral damage, and to track and engage enemy targets.

Technology Areas of Interest

- Advanced Tagging technologies are required that will be simpler, lower cost, and that can provide information in methods that are undetectable by conventional imaging methods (e.g. Forward Looking Infrared (FLIR) imager) without requiring dedicated tag hardware, dedicated aircraft, or specially trained operators.
- Tagging methods for the medium wavelength infrared (MWIR) and long-wave infrared (LWIR) portions of the spectrum to impress distinct characteristics on thermally-emitted radiation to enable tagging and tracking in low light conditions.
- Tagging methods with high visibility against adverse ambient environmental conditions.

EDGE Call for Innovation (CFI)

“CFI ARL-Entity Identification-003”