



U.S. Army Engineer  
Research and Development Center

## Surface Unexploded Ordnance (UXO) Detection

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**Description of Technology** Sensor systems and processing techniques to detect surface unexploded ordnance (UXO) from airborne platforms.

**Benefits** The use of airborne detection reduces the risk to personnel during UXO detection and location operations. The airborne system expedites these operations, allowing future remediation activity to be implemented promptly. The cleanup of military ranges, formerly used defense sites, ammunition disposal sites, and other UXO-contaminated areas will help avoid the loss of human life due to UXO accidents.

**Significant Accomplishments** Scientists modified the Remote Minefield Detection System for UXO applications and evaluated its performance in actual and prepared sites.

Researchers, in collaboration with the U.S. Army Environmental Center, demonstrated the UXO detection capabilities of the modified Remote Minefield Detection System at Fort Rucker, Alabama, and Yuma Proving Ground, Arizona. The demonstration was funded through the Environmental Security Test Certification Program.

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