



TOPIC CANCELED 5/1/10

OFFBOARD COUNTERMEASURES

The Offboard Countermeasures (OCM) Branch of the Naval Research Laboratory (NRL) conducts research and development of expendable decoys, unmanned vehicles, and offboard electronic warfare (EW) capabilities for protection of Naval platforms (ships, aircraft, & vehicles). The Branch mission includes the development of EW system and subsystem requirements; development, analysis and evaluation of offboard systems and subsystems with other EW systems and weapons systems; threat assessments; development of EW tactics and concepts; and field experimentation.

The OCM Branch is interested in receiving proposals for research and development into all of its mission areas. Specific areas of interest include, but are not limited to:

- 1) RF & MMW transmitter technology for expendable systems;
- 2) High speed RF & MMW signal detection & classification;
- 3) RF & MMW signal processing techniques for decoys;
- 4) Integrated offboard and onboard EW techniques;
- 5) Novel antennas & antenna isolation techniques;
- 6) Development of materials for decoy towlines that can handle extreme temperatures;
- 7) Novel IR and visible obscurant materials for use in expendable decoys;
- 8) Development of self-consuming or frangible materials, components, and decoy hardware that will quickly transform after deployment to eliminate the possibility of foreign object damage to naval aircraft;
- 9) Development of concepts and subcomponent technologies supporting low cost expendable/semi-expendable unmanned vehicles to support deployment of electronic countermeasures;
- 10) Field experiments to evaluate and quantify the performance of offboard countermeasures against threat systems; and
- 11) Field experiments to evaluate and quantify the performance of integrated offboard and onboard countermeasures.

In order to provide a clear understanding of all aspects of the proposed program, classified proposals are acceptable. If the offeror is proposing to perform research in a classified area, indicate the level of classification of the organization, the Principal Investigator and all the proposed personnel, and the agency that issued the clearance; if a formal (classified)

proposal is requested by NRL, an unclassified executive summary should accompany the proposal.

Address White Papers (WP) to Code 5710, or via [e-mail](#), telephone (202) 767-2615. Allow one month before requesting confirmation of receipt of WP, if confirmation is desired. Substantive contact should not take place prior to evaluation of a WP by NRL. If necessary, NRL will initiate substantive contact.