



ADVANCED DISTRIBUTED SENSOR TECHNOLOGIES

The Special Projects Group (SPG), Tactical Electronic Warfare Division of the Naval Research Laboratory (NRL) conducts research and development of distributed sensor systems for application in Land, Sea and Air environments. To this end, NRL welcomes proposals in the following areas of distributed sensors:

- 1) Advanced distributed network security schemes for both large scale and small scale networks. Analysis of the security / vulnerability tradeoff is desired.
- 2) Novel, small scale energy storage and generation.
- 3) Advanced small scale communications systems. Both high and low bandwidth schemes are desired assuming high efficiency.
- 4) Advanced sensor technologies. The sensors of interest include but are not limited to radio frequency, human, vehicle, environmental and CBNRE.
- 5) Covert packaging schemes. Both materials and techniques will be considered.
- 6) Novel small scale antenna technologies for both fixed and beam forming patterns.
- 7) System tradeoffs for balancing resource limitations of energy, security, and function.
- 8) Novel deployment schemes. Analysis of random and precision deployment is also desired.

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 5775, [email](#), phone (202) 767-6701. 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.