



**NRL BAA Announcement
#63-09-03**

CHEMICAL, BIOCHEMICAL, AND PHYSICAL SENSING MATERIALS, TRANSDUCERS, AND SENSOR SYSTEMS

The physicochemical properties of materials designed to react to chemical, biochemical, and physical environmental changes are utilized in many devices and systems to monitor environmental conditions.

The Naval Research Laboratory (NRL) is interested in receiving proposals that address the optimization of transducers and sensor systems, related materials, or laser interactions with materials. Topics of interest include: the design and fabrication of novel optical, mass, and electrically responsive sensors, including micromachined or MEMS devices and related subsystems or systems, ion mobility spectrometers, mass spectrometers, holographic based sensors, chemoselective and biochemical selective materials, characterization of the physicochemical properties of materials, development and application of solvation equations, materials deposition or processing techniques, development and application of techniques or tools for fabrication of microelectronic or MEMS components for use with or fabricated by direct write methods, antennae design and fabrication, and, development and application of pattern recognition techniques for data analysis. Another topic of interest includes the design, fabrication, and testing of fixed wavelength or tunable infra-red lasers.

Address White Papers (WP) to Code 6365 or [e-mail](#), telephone (202) 767-0063. 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 contract.