



**NRL BAA Announcement
#68-15-02**

RADIATION EFFECTS RESEARCH

The Solid State Devices Branch of the Electronics Science and Technology Division of the Naval Research Laboratory (NRL) is interested in receiving proposals to investigate the effects of radiation on advanced solid state devices, developing methods to mitigate these effects, and detecting radiation. The radiation of interest includes the natural radiation environment of space (trapped particles, cosmic ray ions, solar protons, etc.) and non-natural sources (gamma rays, neutrons, pulses of energy, etc.). The effects include total dose and displacement damage and single event effects including upset, latchup, gate rupture, etc. The devices of interest include, but are not limited to, advanced technology memory devices, gate arrays, microprocessors, imagers, solar arrays and energy storage devices such as batteries. Mitigation effects include hardening by processing or design or shielding techniques especially using novel and innovative ideas not previously investigated.

Address White Papers (WP) to nrl_pv_research@nrl.navy.mil. 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.