

AIAD #10874

Research Opportunity (Faculty, Cadet, both): Both

ORGANIZATION/PROJECT SPONSOR

Organization: US Army Research Laboratory, Sensors and Electron Devices
Directorate, Electronics & RF Division , RDRL-SER-E

Organization POC: Dr. James Wilson

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Location of Sponsoring Directorate or Division (City, State): Adelphi, MD

PROJECT

Title: Power Harvesting Development and Demonstration Radio Platform

Description: Power harvesting is a popular research area. We have acquired various power harvesting technologies such as mechanical vibration harvesters, solar energy harvesters, etc, to demonstrate the usefulness of the different technologies. The goals of this project are to analyze the different energy harvesting equipment in the lab, determine the best way to combine the different technologies together, and then assemble a demonstration platform using the harvesters to power a communication device.

ARL/Army Benefit: Working demonstration of one possible use for energy harvesting.

Background Required: Electrical engineering, familiar with electronic equipment, breadboards, laboratory test equipment

Security clearance required: None

Capacity: 2

Duration: 12 weeks

Block Preference: None