

AIAD #10852

Research Opportunity: Cadet

ORGANIZATION/PROJECT SPONSOR

Organization: Human Research & Engineering Directorate, Soldier Performance Division

Organization POC: Angelique Scharine

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Location of Sponsoring Directorate or Division (City, State): Aberdeen Proving Ground, MD

PROJECT

Title: Developing an Auditory Model of Soldier Performance

Description: We are currently collecting data of spatial auditory performance (the ability to tell where sounds are coming from) under a variety of acoustic conditions. This data is to be used in a model of Soldier performance the Infantry Warrior Simulation Model (IWARS). The data available will include performance data and individual physical measures for each condition tested. There will be plenty of topics for analysis and modeling.

ARL/Army Benefit: The ability to model the effects of equipment on Soldier performance, both sensory performance and overall mission completion will allow the Army to justify decisions with respect to the development use of equipment that may promise to offer additional capacity – at a possible loss of sensory resources.

Background Required: Basic computer and mathematical skills. The project can be tailored somewhat to the student's interests. Topic areas include perceptual psychology, physics, statistics and mathematical modeling.

Security clearance required: NAC waiver – in order to gain no-escort access to our facility.

Capacity: 1-2 cadets

Duration: 3 weeks

Block Preference: I will be unavailable between July 11-22