

AIAD #10856

Research Opportunity: Cadet

ORGANIZATION/PROJECT SPONSOR

Organization: Human Research and Engineering Directorate, Soldier Performance Division

Organization POC: Dr. Philip Crowell

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

PROJECT

Title: Interactions of Physiological and Cognitive Performance

Description: New equipment is being developed to exchange information with dismounted Soldiers. It is likely that Soldiers will use this equipment while they are moving (i.e., walking). There is a need to quantify the interactions between physiological and cognitive performance so that guidelines can be developed for the design and use of this type of equipment. As part of that process, we are conducting an experiment to determine which of our facilities (outdoor environment, laboratory, or fully immersive simulator) is most appropriate for conducting specific types of research. There are opportunities for a cadet to be involved in collecting, processing, and analyzing data.

ARL/Army Benefit: The results of this experiment will help us to use the most appropriate environment for specific types of Soldier-equipment experiments

Background Required: Engineering Psychology or Physical Education

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

Capacity: 1 to 2 Cadets

Duration: 2 to 4 weeks

Block Preference: Unknown at this time