

# Postdoctoral Fellowship Opportunity



## Overview:

The Warfighter Effectiveness Research Center (WERC) at the United States Air Force Academy (USAFA) is offering a postdoctoral fellowship. The postdoctoral fellow will work closely with Dr. Anthony Ries on an Army Research Laboratory-sponsored project to investigate the impact of feature and state variability on visual search in real-world contexts. The candidate will leverage EEG and or eye tracking methods together with virtual reality technology to isolate the neurophysiological processes involved in visual perception. This is a stipend-based position open to doctoral graduates and ABD doctoral candidates.

Annual stipend: \$76,000 plus relocation reimbursement, travel, and professional development.

## Purpose:

- Advance the candidate's technical skills and experience
- Increase the candidate's competitiveness in the labor market
- Provide collaborative opportunities for career enhancement
- Promote the influx of new skills into the research center
- Enable the warfighter
- Contribute to the growing body of scientific knowledge

## Preferred Background:

- Ph.D. degree in a relevant field (already received, or having completed all requirements and awaiting graduation)
- Detailed technical expertise in one or more of the specific research areas below, including knowledge of the gaps, conflicts, limits, and challenges:
  - Eye-tracking visual search
  - Visual neuroscience
  - Fixation-related potentials
  - Event-related potentials
  - EEG eye-tracking integration
  - VR eye-tracking integration

## Knowledge, Skills, and Abilities:

- Strong research skills and experience, including:
  - Critical evaluation of literature
  - Experimental design
  - Project management
  - Data analysis techniques
- Fluency in a programming language to perform high-volume analysis (Matlab, Python, etc.)
- Knowledge of statistical analysis software (SPSS, SAS, etc)
  - Data Interpretation
- Ability to communicate effectively through the following mediums:
  - Conference briefings and talks
  - Grant applications
  - Scientific publications
- Ability to work independently and collaboratively
- Ability to mentor and coach junior scientists

## How to Apply:

Applicants should send the following application package to WERC@usafa.edu:

- A curriculum vitae
- A letter of recommendation from the candidate's advisor
- A cover letter which specifically outlines the candidate's:
  1. qualifications that address the knowledge, skills, and abilities listed above;
  2. research interests;
  3. career goals; and
  4. how the candidate plans to achieve these goals.

Please note that this fellowship requires an NACI background check. References and educational requirements will be verified.

Dr. Anthony Ries  
Research Psychologist, U.S. Army Research Laboratory  
Distinguished Visiting Scientist, Warfighter Effectiveness Research Center (WERC)  
Department of Behavioral Sciences & Leadership, United States Air Force Academy  
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## Nature of the Fellowship:

Participants will not enter into an employee/employer relationship with USAF, USAFA, ORISE, ORAU, or any other office or agency. Instead, the participant will be affiliated with ORISE for the administration of the internship through an ORISE appointment letter and Terms of Appointment.