Opportunity Title: Cross-Reality AURORA Common Operating Picture for Multi-Domain Operations
Opportunity Reference Code: ARL-C-CISD-300079

Organization DEVCOM Army Research Laboratory

Reference Code ARL-C-CISD-300079

Application Deadline 9/10/2026 1:00:00 PM Eastern Time Zone

Description

About the Research

Project AURORA (Accelerated User Reasoning for Operations, Research, and Analysis) seeks to understand how cross-reality (AR,VR,MR) can be used to enhance the common operating picture for future multi-domain battle. The AURORA project is a platform consisting of network (AURORA-NET) and interface (AURORA-XR) modules that allow researchers to conduct controlled experimentation on the ingestion of battlefield data on the network to its visualization, analysis, and actuation by humans and intelligent agents. There is currently limited literature on how best to use immersive technology for decision-making, particularly across different visualization mediums as well as across different threat domains.

ARL Advisor: Pete Khooshabehadeh; Mark Dennison

ARL Advisor
Email: peter.khooshabehadeh2.civ@mail.mil; mark.s.dennison.civ@mail.mil

About CISD

The Computational and Information Sciences Directorate (CISD) conducts research in a variety of disciplines relevant to achieving and implementing the so-called digital battlefield. Problems address the sensing, distribution, analysis, and display of information in the modern battle space. CISD research focuses on four major areas: communications, atmospheric modeling, battlefield visualization, and computing

About ARL-RAP

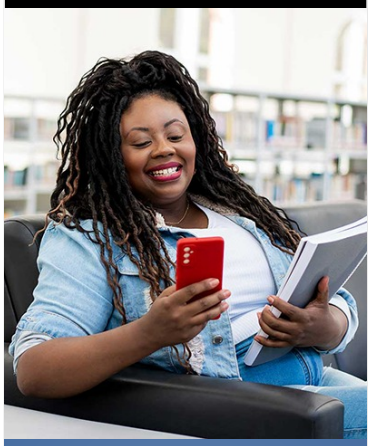
The Army Research Laboratory Research Associateship Program (ARL-RAP) is designed to significantly increase the involvement of creative and highly trained scientists and engineers from academia and industry in scientific and technical areas of interest and relevance to the Army. Scientists and Engineers at the CCDC Army Research Laboratory (ARL) help shape and execute the Army's program for meeting the challenge of developing technologies that will support Army forces in meeting future operational needs by pursuing scientific research and technological developments in diverse fields such as: applied mathematics, atmospheric characterization, simulation and human modeling, digital/optical signal processing, nanotechnology, material science and technology, multifunctional technology, combustion processes, propulsion and flight physics, communication and networking, and computational and information sciences.

A complete application includes:

- **Curriculum Vitae or Resume**

DEVCOM ARMY RESEARCH LABORATORY

ORAU Pathfinder



Whether you are just starting your career or already at a senior level, ORAU offers internships, fellowships, research opportunities, and contract positions that can provide you with invaluable experience. Download the ORAU Pathfinder mobile app and find the right opportunity to propel you along your career path!

Visit ORAU Pathfinder

GET IT ON Google Play

Download on the App Store

Opportunity Title: Cross-Reality AURORA Common Operating Picture for Multi-Domain Operations
Opportunity Reference Code: ARL-C-CISD-300079

- **Three References Forms**
  - An email with a link to the reference form will be available in Zintellect to the applicant upon completion of the on-line application. Please send this email to persons you have selected to complete a reference.
  - References should be from persons familiar with your educational and professional qualifications (include your thesis or dissertation advisor, if applicable)
- **Transcripts**
  - Transcript verifying receipt of degree must be submitted with the application. Student/unofficial copy is acceptable

If selected by an advisor the participant will also be required to write a **research proposal** to submit to the ARL-RAP review panel for :

- Research topic should relate to a specific opportunity at ARL (see Research Areas)
- The objective of the research topic should be clear and have a defined outcome
- Explain the direction you plan to pursue
- Include expected period for completing the study
- Include a brief background such as preparation and motivation for the research
- References of published efforts may be used to improve the proposal

A link to upload the proposal will be provided to the applicant once the advisor has made their selection.

Questions about this opportunity? Please email ARLFellowship@orau.org

Eligibility Requirements

- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree.
- **Academic Level(s):** Any academic level.
- **Discipline(s):**
  - **Computer, Information, and Data Sciences** (16)
  - **Engineering** (4)
  - **Mathematics and Statistics** (1)
  - **Other Non-Science & Engineering** (1)
  - **Physics** (1)