

Opportunity Title: Aerosol Characterization by Laser Spectroscopy Research

Opportunity Reference Code: ARL-C-CISD-8725558262

Organization DEVCOM Army Research Laboratory

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Description A **Postdoctoral** or **Senior Research Fellow** opportunity is available in the U.S. Army Research Laboratory, Adelphi, Maryland. The lab seeks experimental approaches to use laser spectroscopy to study atmospheric aerosols, especially biological and chemical aerosols. Two projects focus on the detection and characterization of individual aerosol particles by using multiple optical methodologies. Preference will be given to candidates having good experience in optics and laser spectroscopy, instrumentation, and familiarity with aerosols. U.S. citizenship is required.

The Army Research Laboratory (ARL) is the Army's corporate basic and applied research laboratory. Our mission is to provide innovative science, technology, and analysis to enable full-spectrum operations. The opportunity available is in the Battlefield Environment Division of the Computational and Information Sciences Directorate (CISD). For further information on ARL, please see the website, <http://www.arl.army.mil/www/default.cfm>. For immediate response reply with your resume and research interests. Additional application instruction are listed below.

ARL Advisor: Dr. Yong-Le Pan

ARL Advisor Email: yongle.pan.civ@army.mil


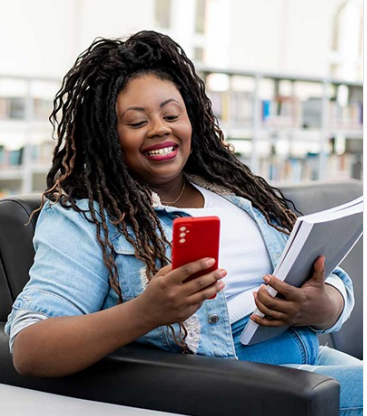
About CISD

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:

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- **Curriculum Vitae or Resume**
- **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**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Doctoral Degree.
 - **Academic Level(s):** Faculty.
 - **Discipline(s):**
 - **Computer, Information, and Data Sciences** ([16](#) )
 - **Engineering** ([27](#) )
 - **Life Health and Medical Sciences** ([15](#) )
 - **Physics** ([16](#) )
 - **Age:** Must be 18 years of age