

Opportunity Title: Development of Electromagnetic Skins
(Metamaterial/Metasurface, Reconfigurable Intelligent Surface) for Radar and
Communication Applications

Opportunity Reference Code: ARL-R-ARD-20260729-F1

Organization DEVCOM Army Research Laboratory

Reference Code ARL-R-ARD-20260729-F1

How to Apply Applications must be submitted in [Zintellect](#).

A complete application includes:

1. Curriculum Vitae or Resume

- List relevant coursework and lab experience as well as all papers, presentations, or publications you may have authored or co-authored. Include any reprints or abstracts if they are available.

2. 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)

3. Transcripts

- Transcript verifying receipt of degree or current enrollment in an undergraduate or graduate program at an accredited university or technical institute. Student/unofficial copy is acceptable

4. Research Proposal

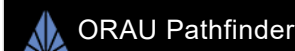
- Research topic should relate to a specific opportunity at ARL
- The objective of the research topic should be clear and have a defined outcome
- Explain the direction you plan to pursue
- Include expected period for completing the study
- Include a brief background such as preparation and motivation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

Description The research entails utilizing the candidate's knowledge-base on metamaterial/metamaterial and electromagnetic theory. The Army is interested in developing next generation of RF microwave antenna/radar system utilizing metamaterial/metamaterial technology. The candidate will help develop passive and active metamaterial/metamaterial technology to incorporate to the next generation of antenna/radar for Army applications.

ARL Advisor: [Quang Nguyen](#)

About Army Research Directorate (ARD)

ARL's Army Research Directorate (ARD) focuses on exploiting concept development, discovery, technology development, and transition of the most promising disruptive science and technology to deliver to the Army fundamentally advantageous science-based capabilities through laboratory's 11 research competencies. This intramural research directorate



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 [↗](#)



Opportunity Title: Development of Electromagnetic Skins
(Metamaterial/Metasurface, Reconfigurable Intelligent Surface) for Radar and
Communication Applications
Opportunity Reference Code: ARL-R-ARD-20260729-F1

also manages the laboratory's essential research programs, which are
flagship research efforts focused on delivering defined outcomes.

**About [Army Research Laboratory Research Associateship Program](#)
(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.

Point of Contact [ARL-RAP](#)

- Eligibility**
- Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Master's Degree or Doctoral Degree.
 - **Academic Level(s):** Master's Degree (Journeyman Fellow), Master's Degree 7+ years (Senior Fellow), Doctoral Degree (Postdoctoral Fellow), or Doctoral Degree 5+ years (Senior Fellow).
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Communications and Graphics Design** ([2](#) )
 - **Computer, Information, and Data Sciences** ([17](#) )
 - **Earth and Geosciences** ([21](#) )
 - **Engineering** ([29](#) )
 - **Environmental and Marine Sciences** ([14](#) )
 - **Life Health and Medical Sciences** ([51](#) )
 - **Mathematics and Statistics** ([11](#) )
 - **Physics** ([16](#) )
 - **Science & Engineering-related** ([2](#) )
 - **Social and Behavioral Sciences** ([29](#) )