

Opportunity Title: Resilient Materials, Devices, and Sensors

Opportunity Reference Code: ARL-R-SEDD-300090-ES

Organization DEVCOM Army Research Laboratory

Reference Code ARL-R-SEDD-300090-ES

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

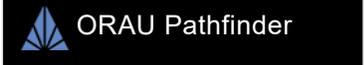
Description About the Research

This opportunity is available at the U.S. Army Research Laboratory located at Adelphi, MD. The Energy Sciences Division (ES) is seeking candidates with a strong interest in future energy technologies who has recently studied or is currently studying in engineering or science. Energy demand is expected to increase across the board and we are working on technologies to harvest local power, condition it efficiently, and store it quickly and for long times. These multi-disciplinary problems require materials, electronics, 3D printing, and design expertise.

ARL Advisor: Brendan Hanrahan

ARL Advisor Email: brendan.m.hanrahan.civ@army.mil

ARL Advisor: Kathleen Coleman-Walter



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ARL Advisor: Sarah Bedair

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ARL Advisor: Vijay Parameshwaran

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About Energy Sciences (ES)

Science of mechanical and electrical power generation, storage, conditioning and distribution; energy conversion; and emerging concepts for lasers, directed energy (DE), DE protection and propagation.

About DEVCOM Army Research Laboratory (ARL) Research Associateship Program (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.

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

Questions about this opportunity? Please email

ARLFellowship@ora.u.org

- Qualifications**
- Demonstrated experience in laboratory work, gained through professional or academic settings
 - Strong proficiency in written and verbal communication
 - Self-motivated with a proactive approach

Point of Contact [ARL-RAP](#)

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- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree.
 - **Academic Level(s):** Associate's Degree (Journeyman Fellow), Bachelor's Degree (Journeyman Fellow), Master's Degree (Journeyman Fellow), Master's Degree 7+ years (Senior Fellow), Doctoral Degree (Postdoctoral Fellow), Doctoral Degree 5+ years (Senior Fellow), or Faculty.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#))
 - **Communications and Graphics Design** ([2](#))
 - **Computer, Information, and Data Sciences** ([17](#))
 - **Earth and Geosciences** ([21](#))
 - **Engineering** ([27](#))
 - **Environmental and Marine Sciences** ([14](#))
 - **Life Health and Medical Sciences** ([46](#))
 - **Mathematics and Statistics** ([10](#))
 - **Physics** ([16](#))
 - **Science & Engineering-related** ([1](#))
 - **Social and Behavioral Sciences** ([28](#))
 - **Age:** Must be 18 years of age