

Opportunity Title: Biological Materials Towards Multifunctional Applications

Opportunity Reference Code: ARL-R-BBS-400009-F1

Organization DEVCOM Army Research Laboratory

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Description A research opportunity is available in the Bio-Materials Synthesis and Assembly Branch at the DEVCOM Army Research Lab (ARL) in Adelphi, MD. This position requires various skillsets related to the preparation and characterization of biologically-derived materials for multifunctional applications. Work will include the support of synthetic biology and chemical synthesis workflows, purification and characterization of biological materials, integration with matrices utilizing material processing techniques, preparation of samples for testing, and communication of results through presentations and internal publications. The applicant should possess an aptitude and experience for working both independently and in collaboration with other team members, as the applicant will need to communicate with scientists from multiple disciplines. Desired Skills and Qualifications: B.S. or M.S. in Chemistry, Biochemistry, Materials Science, and related disciplines. Previous lab research experience preferred. Able to follow complex, scientific instructions and able to learn new things quickly. Must be self-motivated with good interpersonal skills to achieve results within an interdisciplinary project team. Ability to independently design and execute experiments; critical thinking/problem solving.

Advisor Name: Hong Dong

Advisor Email: hong.dong.civ@army.mil

About ARD

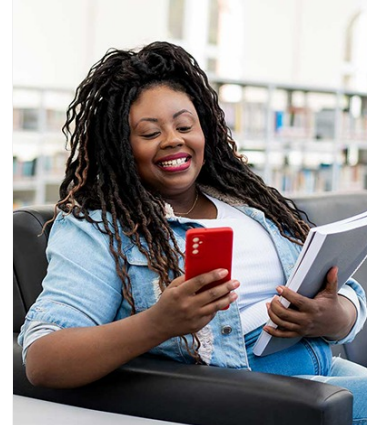
ARL's Army Research Directorate (ARD) focuses on exploiting concept development, discovery, technology development, and transition of the most promising disruptive science and technology to deliver to the Army fundamentally advantageous science-based capabilities through laboratory's 11 research competencies. This intramural research directorate also manages the laboratory's essential research programs, which are flagship research efforts focused on delivering defined outcomes.

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



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sciences.

About BIOLOGICAL AND BIOTECHNOLOGY SCIENCES (BBS)

Biological related disciplines, including synthetic biology, biological materials, biological/abiological interfaces, and biological effect.

A complete application includes:

- **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.

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| Eligibility Requirements | <ul style="list-style-type: none">• Citizenship: U.S. Citizen Only• Degree: Bachelor's Degree, Master's Degree, or Doctoral Degree.• Academic Level(s): Any academic level.• Discipline(s):<ul style="list-style-type: none">◦ Chemistry and Materials Sciences (12 ) |
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