

Opportunity Title: Expanding capabilities in fungal genetic engineering for biotechnology applications

Opportunity Reference Code: ARL-C-SEDD-300070

Organization DEVCOM Army Research Laboratory

Reference Code ARL-C-SEDD-300070

Description About the Research

A research opportunity is available in the Biotechnology Branch at CCDC Army Research Laboratory (ARL) in Adelphi, MD.

A post-baccalaureate opportunity is available offering an opportunity to conduct research in Biotechnology (non-medical). This fellowship supports the objectives of the following areas: Living Materials, Chassis Genetic Engineering and Development, and Transformational Synthetic Biology for Military Environments. Journeymen are expected to support all aspects of molecular biology and microbiology workflows in the Biotechnology Branch with the potential to conduct independent research under the supervision of Army biologists. Experience with diverse microbial hosts and molecular biology techniques is preferred.

Key Responsibilities:

- Support synthetic biology and microbiology workflows
- Develop optimized biology workflows for automation
- Learn and perform high throughput assays with state-of-the-art technology
- Write technical reports for internal publication
- Work on a multi-disciplinary team and contribute to publications and patents

The initial appointment is for 12 months, but may be renewed upon recognition of CCDC ARL contingent on the availability of funds. The participant will receive a monthly stipend commensurate with educational level and experience. The appointment is full-time at CCDC ARL in the Adelphi, MD area.

Keywords: microbiology, molecular biology, biochemistry

ARL Advisor: Randi Pullen; Bryn Adams

ARL Advisor Email: randi.m.pullen.civ@mail.mil; bryn.l.adams.civ@mail.mil

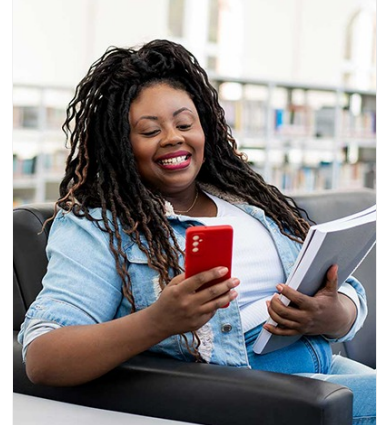
About SEDD

The Sensors and Electron Devices Directorate (SEDD) is the Army's principal center for research and development in the exploration and exploitation of the electromagnetic spectrum, which includes radio frequency, microwave, millimeter-wave, infrared (IR), visible, and audio regions. SEDD is responsible for advances in laser sources, RF sources, IR sensors, signature detection and decoding, target imaging and its interpretation, fusion of data derived from several sensors, and electromagnetic protection.

In addition, SEDD is responsible for improving the technology base for electron devices and materials related to sensors and power devices. Research is conducted in related aspects of physics, electrical engineering, computer science, solid-state physics, chemical engineering, material



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sciences, and electrochemistry.

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**
- **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 | <ul style="list-style-type: none">• Citizenship: U.S. Citizen Only |
| Requirements | <ul style="list-style-type: none">• Degree: Bachelor's Degree.• Academic Level(s): Any academic level.• Discipline(s):<ul style="list-style-type: none">◦ Life Health and Medical Sciences (3 👁) |