

Opportunity Title: 2020 CDC-ARL Summer Student Experience: Weapons and Materials Research Directorate

Opportunity Reference Code: ARL-SSE-WMRD-300019

Organization DEVCOM Army Research Laboratory

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Application Deadline 3/1/2020 11:59:59 PM Eastern Time Zone

Description The [Weapons and Materials Research Directorate](#) (WMRD) of the US Army Research Laboratory (USARL) has an opportunity for graduate students who are currently enrolled in an accredited Masters or Doctoral degree program to perform research onsite at WMRD facilities during the summer of 2019. The goals of WMRD are to enhance the lethality and survivability of weapons systems, and to meet the soldier's technology needs for advanced weaponry and protection, and novel materials and manufacturing science. Research is pursued in energetic materials dynamics, propulsion/flight physics, projectile warhead mechanics, high-strain and ballistics, terminal effects phenomena, armor/survivability technologies, environmental chemistry, bio-inspired materials, coatings, corrosion, and advanced materials (energetic, metals, ceramics, polymers, composite/hybrids, and mechanics/material response) for armor, armament, missiles, ground vehicles, helicopters, and individual soldier applications necessary for maintaining and ensuring supremacy in future land warfare.

Research can be experimental, computational, or a combination of both.

Computer resources include PC and LINUX workstations, as well as SGI, IBM, and CRAY mainframes. WMRD has a wide array of experimental capabilities that are both unique and state-of-the-art. Applicants will work directly with ARL researchers on a problem of mutual interest.

This opportunity is open to all STEM disciplines that support research in sciences for lethality and protection as well as materials research. These can include, but are not limited to: physics, chemistry, engineering (mechanical, aerospace, chemical, electrical, engineering mechanics), materials science, manufacturing technology, and mathematics.

Locations: Adelphi Laboratory Center, Maryland; Aberdeen Proving Ground, Maryland; ARL-West, ARL-South, ARL-Central

U.S. Citizenship is required to participate in a Summer Student Experience with WMRD.

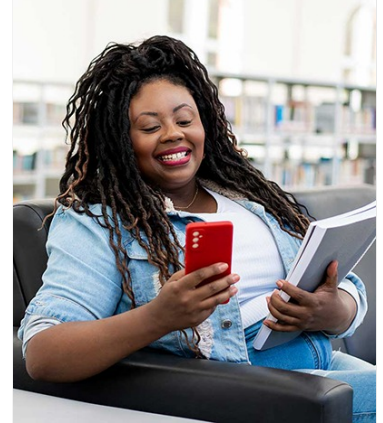
Qualifications CDC Army Research Laboratory (ARL) Research Associateship Program (RAP) Summer Student Experience is an educational program that allows undergraduate through PhD students and recent Bachelor and Master's degree graduates to participate in a paid research experience at a Department of Defense laboratory over the summer break.

A candidate must be in good standing (a minimum of a 2.5 GPA) at an accredited university or technical institute, and in an academic program leading to an undergraduate or graduate degree.

Scientists and engineers at ARL help shape and execute the Army's program for meeting the challenge of developing technologies that will



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support Army forces in meeting future operational needs. Students can participate in research in one of the following areas:

- Computational and Information Sciences Directorate (CISD)
- Human Research and Engineering Directorate (HRED)
- Sensors and Electron Devices Directorate (SEDD)
- Vehicle Technology Directorate (VTD)
- Weapons and Materials Research Directorate (WMRD)

U.S. Citizenship is required to participate in a Summer Student Experience with WMRD.

Deadline:

First Round Application Deadline: Sunday, November 24, 2019

NEW *Second Round Application Deadline: Sunday, March 1, 2020*

Application Requirements:

The following must be uploaded into the online application:

- **Resume** - Please list your relevant coursework and lab work on your resume as well as all papers, presentations, or publications you may have authored or co-authored. Include any reprints or abstracts if they are available.
- **Transcripts** - Transcript verifying receipt of degree/or identifying current enrollment. Original student copies are acceptable.
- **Statement of Interest** - Write a one-page description of your scientific research experience. Please include references to your lab work as well as any relevant academic coursework. How does this experience intersect with your personal and professional goals?
- **References** - Reference forms are not required for the Summer Student Experience, but names and contact information for references are part of the online application. During the review process, some Advisor/Selecting Officials may contact references for further evaluation.

For questions about the Summer Student Experience Program, please visit <https://orau.org/arl/fellowship/> or email ARLFellowship@orau.org.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Currently pursuing a Bachelor's Degree, Master's Degree, or Doctoral Degree.
- **Overall GPA:** 2.50
- **Academic Level(s):** Any academic level.
- **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#))
 - **Communications and Graphics Design** ([2](#))
 - **Computer, Information, and Data Sciences** ([16](#))
 - **Engineering** ([27](#))
 - **Life Health and Medical Sciences** ([8](#))
 - **Mathematics and Statistics** ([10](#))

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- **Other Non-Science & Engineering** ([2](#))
- **Physics** ([16](#))
- **Science & Engineering-related** ([1](#))
- **Social and Behavioral Sciences** ([27](#))
- **Age:** Must be 18 years of age