Opportunity Title: 2021 CCDC-ARL Summer Student Experience: Vehicle Technology Directorate
Opportunity Reference Code: ARL-SSE-VTD-2021

Organization DEVCOM Army Research Laboratory

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Description The CCDC Army Research Laboratory's Vehicle Technology Directorate (VTD) is the principal Army organization responsible for establishing knowledge and understanding to enable beyond next generation vehicle platform technologies to support the future warfighter. The goal at VTD is to shape the vision of the future battlefield imagined for 2035 and beyond, by achieving discovery and innovation in the areas of autonomous air and ground vehicles; next generation propulsion and power; and disruptive concepts for vertical lift and mobility. Establishment of new science and technology to enable the realization of structurally-adaptive, unmanned maneuver platforms – envisioned to integrate into manned-unmanned as well as unmanned-unmanned teams is a unique area of focus for VTD. This includes the realization of capabilities that will utilize intelligence to exploit and engage the operational environment for improved situational awareness; as well as internal state (IS) awareness for assessing capabilities and limitations of embodied intelligence with respect to mission objectives and diverse mission sets.

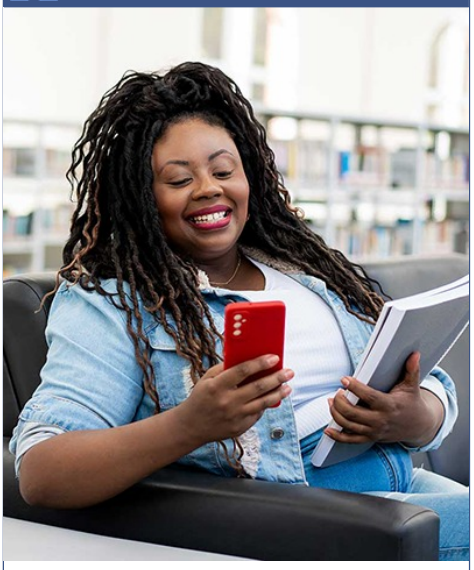
The VTD mission is accomplished through in-house basic and applied research, and from collaborations with other ARL functions, CCDC, Navy, Air Force, academia and industry leaders. The mission is enhanced through teaming with and leveraging of research efforts associated with Collaborative Technology Alliances (CTAs) and Multidisciplinary University Research Initiatives (MURIs). VTD is actively engaged with several industry and academic partners, has several active cooperative agreements, and a unique partnership with the National Aeronautics and Space Administration (NASA) at the Langley Research Center in Hampton, VA.

Locations: Adelphi Laboratory Center (ALC), Maryland; Aberdeen Proving Ground (APG), Maryland; White Sands Missile Range (WSMR), New Mexico; ARL Regional Sites: ARL-West, California; ARL-South, Texas; ARL-Central Illinois; ARL North East, Massachusetts.

U.S. Citizenship is not required to be considered for as Summer Student Experience Fellow with VTD, but non-U.S. Citizens are strongly encouraged to apply early to allow additional processing time for the ORAU immigration office and ARL security.

Qualifications CCDC 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

ORAU Pathfinder



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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 support Army forces in meeting future operational needs. Students can participant 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)

Deadline:

Second Round Application Deadline: Sunday, February 28, 2021

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 the ARL-RAP website or email ARLFellowship@orau.org.

Eligibility Requirements

- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 36 months or currently pursuing.
- **Overall GPA:** 2.50
- **Academic Level(s):** Any academic level.

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- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12)
  - **Computer, Information, and Data Sciences** (17)
  - **Engineering** (27)
  - **Life Health and Medical Sciences** (1)
  - **Mathematics and Statistics** (10)
  - **Physics** (16)
- **Age:** Must be 18 years of age