

Opportunity Title: Chemical and Electrochemical Energy Conversion Materials, Devices, and Sensors

Opportunity Reference Code: ARL-R-ES-400018-F1

Organization DEVCOM Army Research Laboratory

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Description This opportunity is available at the U.S. DEVCOM Army Research Laboratory's (ARL), located at Adelphi, MD. Seeking a candidate with a strong interest in future energy and power science and 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 innovating chemical and electrochemical energy conversion solutions by researching materials and technologies to harvest local power, convert to value-added products, and store it quickly and for long times. These multi-disciplinary problems require a team with materials, engineering, modeling, and design expertise.

Eligibility:

- Experience with lab work in either a work or school setting
- Good written and oral communication skills
- Personal initiative

ARL Advisor:

Jonathan Boltersdorf

jonathan.a.boltersdorf.civ@army.mil

Thomas N. Rohrbaugh, Jr.

thomas.n.rohrbaugh.civ@army.mil

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



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(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.

Point of Contact [ARL](#)

Eligibility • **Citizenship:** U.S. Citizen Only

Requirements • **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree.

• **Academic Level(s):** Any academic level.

• **Discipline(s):**

- **Chemistry and Materials Sciences** ([12](#))
- **Communications and Graphics Design** ([6](#))
- **Computer, Information, and Data Sciences** ([17](#))
- **Earth and Geosciences** ([21](#))
- **Engineering** ([27](#))
- **Environmental and Marine Sciences** ([14](#))
- **Life Health and Medical Sciences** ([48](#))
- **Mathematics and Statistics** ([11](#))
- **Physics** ([16](#))
- **Science & Engineering-related** ([2](#))
- **Social and Behavioral Sciences** ([29](#))