



# Summer Research Internship Opportunity NIMSI, Northwestern University



Army Research Laboratory is seeking highly qualified, enthusiastic applicants for the ARL Student Summer Fellowships both at the undergraduate and graduate level to participate in science and engineering research at ARL. These research topic areas listed below fall within the Versatile Tactical Power and Propulsion Essential Research Program (VICTOR ERP) applicable to propulsion and energy for air and ground autonomous systems. For more information on VICTOR ERP, please see <https://www.arl.army.mil/what-we-do/essential-research-programs/>.

TOPIC	TECHNICAL AREA LEAD
Ignition Model Development of Operationally Relevant Fuels	Dr. Jacob Temme, <a href="mailto:jacob.e.temme.civ@mail.mil">jacob.e.temme.civ@mail.mil</a>
Variable Energy Assisted Compression Ignition	Dr. Kenneth Kim, <a href="mailto:kenneth.s.kim11.civ@mail.mil">kenneth.s.kim11.civ@mail.mil</a>
Reliable High-Temperature Coatings/Light-weight Advanced Materials	Dr. Jon-Erik Mogonye, <a href="mailto:jon-erik.mogonye.civ@mail.mil">jon-erik.mogonye.civ@mail.mil</a>

Tribological Materials for Extreme Low Viscosity Fuels	Dr. Stephen Berkebile, <a href="mailto:stephen.p.berkebile.civ@mail.mil">stephen.p.berkebile.civ@mail.mil</a>
High-Pressure Compact Air Management	Dr. Ryan McGowan, <a href="mailto:ryan.c.mcgowan3.civ@mail.mil">ryan.c.mcgowan3.civ@mail.mil</a>
Hybrid-Electric Tool/Method	Dr. Dino Mitsingas, <a href="mailto:constandinos.m.mitsingas.civ@mail.mil">constandinos.m.mitsingas.civ@mail.mil</a>
Fast charge batteries and wireless power transfer	Dr. Sarah Bedair, <a href="mailto:sarah.s.bedair.civ@mail.mil">sarah.s.bedair.civ@mail.mil</a>
Autonomous system teaming	Mr. Marshal Childers, <a href="mailto:marshal.a.childers.civ@mail.mil">marshal.a.childers.civ@mail.mil</a>

If you are interested in a summer fellowship with VICTOR ERP, please email your resume on or before **January 27<sup>th</sup>** to the technical area lead listed above. The most qualified candidates will be contacted for a phone interview. To be eligible for selection, you must additionally apply at the appropriate website below by the deadline given. There are a number of other research areas at ARL; applications submitted to the websites are visible for possible selection across the laboratory in other research areas.

Fellowships are typically 8 to 12 weeks in duration, depending on the project, sometime between the dates of 11 May to 25 Sep 2020. Fellowships will be primarily located at Aberdeen Proving Ground in Maryland, with limited opportunities at ARL regional sites (<https://www.arl.army.mil/opencampus/?q=ARLExtended>).

**Deadline for CV/resume to point of contact – January 27, 2020** (for best consideration, those received afterwards will be considered with lower priority).

SSE for graduate students (online application deadline 16 Feb):

<https://www.ornl.gov/arl/fellowship/applicants/how-to-apply-summer-student-experience.htm>

CQL for current undergrads (technically the online application deadline is 28 Feb, but we make decisions early so please aim for the 16th):

<https://www.usaeop.com/program/cql/>

Please note, US citizenship is required for ARL summer internships.