

The Los Alamos Robotics & Automation Summer School (RASS) provides the opportunity to work on engineering projects that create solutions to Los Alamos National Laboratory (LANL) mission-relevant problems. The summer school also offers formal technical and career-development tutorials. This is a paid summer internship.

RASS will place students in a strong position for future internships or permanent employment at LANL.

How To Apply

Search lanl.jobs for job ad: **IRC115097**

You must upload the following documents with your application:

1. Resume
2. Cover letter describing
 - your interest in this summer school and multi-disciplinary autonomous or robotic systems development,
 - your near term (1-3 year) academic and professional goals,
 - how you meet the desired qualifications
3. Complete Transcripts
4. At least one letter of recommendation



Program limited to US citizens

Applications Accepted beginning
Nov. 7, 2022

Deadline: Jan. 9, 2023

Questions/inquiries email:
rass@lanl.gov

Acceptance notifications sent
Jan. 27, 2023

Contact Beth Boardman,
rass@lanl.gov

Hosted by:
Process Controls & Automation,
Engineering Technology & Design



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PROCESS
AUTOMATION
AND CONTROL



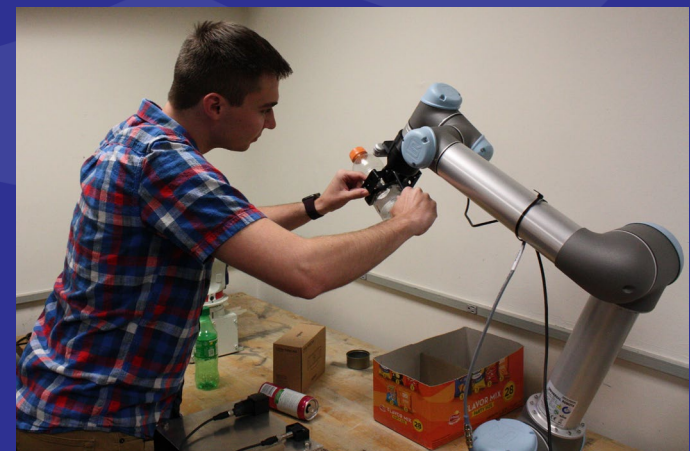
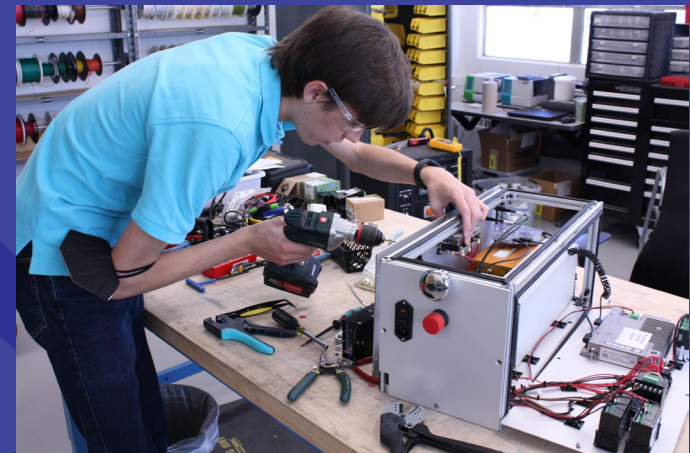
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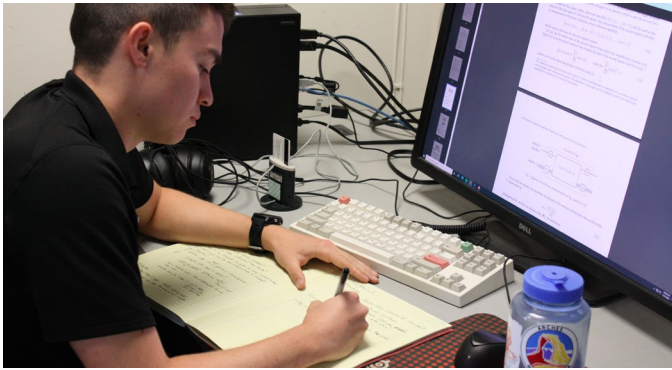
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Robotics &
Automation
Summer
School

June 5 – August 11, 2023

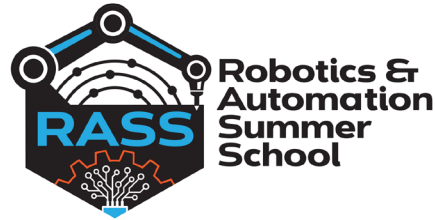




Students

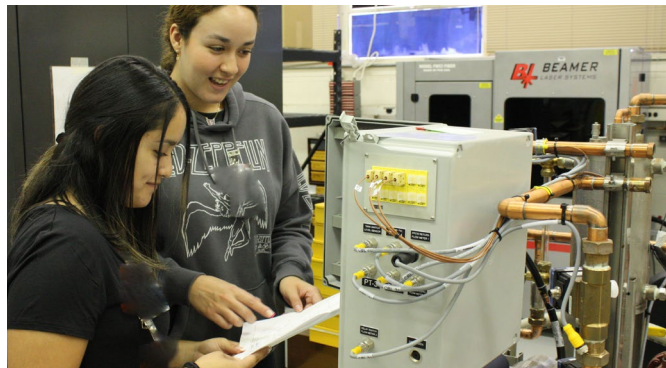
The program is designed for 10 undergraduate students to first-year graduate students. High-quality students from diverse academic and cultural backgrounds are sought to participate. Acceptance into the program is based on academic record and letters of recommendation. A variety of academic disciplines are being sought, including computer science and aerospace / robotics / mechanical / nuclear / electrical engineering. Students will be provided with a salary that is dependent on their academic status (see https://www.lanl.gov/careers/career-options/student-internships/_assets/docs/salary-structure.pdf).

Student travel to LANL will be reimbursed based on their point of origin. Reimbursement of travel costs for the subsequent conference presentation is also provided.



Projects

The students will be placed into 2- or 3-person multi-disciplinary teams, assigned an engineering project to be completed in an intense 10-week time frame, and partnered with LANL staff members as mentors. The projects typically have a robotics, LabVIEW, programmable logic controller, and hardware component. Projects will focus on the development of an automated system. The project will result in a prototype or demonstration, which will be exhibited at the end of the summer. Standard engineering documents, such as requirements, project plan, and drawings, will be generated. The students will prepare a paper for and present their developmental systems at an industry conference taking place the following winter.



Tutorials

Students participate in weekly tutorials on various aspects of process controls, automation, and robotics engineering such as LabVIEW programming, signal processing, machine learning, shop equipment, cable building, and robotics. In most cases, the students will apply the material presented in these tutorials to their respective projects. In addition to the engineering-focused tutorials, students are presented with professional development lectures that include applying to graduate school, applying for graduate fellowships, and various ways LANL provides graduate school funding. Tours of various LANL facilities will also be scheduled.

