We have opportunities for student interns to conduct research in fields such as nuclear physics, radiation transport, hydrodynamics, astrophysics, plasma dynamics, numerical methods, and computer science supporting national security for the Weapons and Complex Integration Directorate.

Research projects combine theory with computation and are geared to further the students’ educational goals. During the summer, students work directly with laboratory mentors in their fields of research. Internship opportunities are available for highly qualified candidates at all levels of undergraduate or graduate education. Internships are for 3 months during the summer. Students must arrive in May or June, work for three months and depart in August or September.

Lawrence Livermore National Laboratory
LLNL (www.llnl.gov) applies science and technology to important problems related to national security including nuclear weapons stockpile stewardship, nonproliferation, and homeland security. In support of this mission, the laboratory has a history of and continues to pioneer technical innovations in many areas including high-energy-density physics, high-performance scientific computing, and inertial confinement fusion. LLNL is one of this country’s largest and finest research and engineering laboratories, and is located in beautiful Northern California.

2022 student project
In helicopters, the rotor blade oscillation changes the surface pressure and can induce dynamic stall. The very rapid pitching maneuvers can cause flow separation and generate vortices when a wing exceeds a critical angle of attack. PhD student Jessica Shum (UC Davis), with the support and mentors Dr. Rose McCallen, Dr. Kambiz Salari, and Dr. Jeremy White is analyzing aerodynamic response to loads and developing ways to mitigate the effects of harsh environments in next generation flight vehicles.

Application Deadline: Jan. 16, 2023
https://wci.llnl.gov/careers/students
Graduate Student Internship: Job #REF1516N
Graduate Computational Student Internship: Job #REF1517F
Undergrad Student Internship: Job #REF1514W