ISTI Summer Schools 2020
Educational internship opportunities for undergraduate and graduate students

Students, start your career before you even graduate! Join us at the Lab, where we solve national security challenges through scientific excellence. This means working in national security, energy, healthcare, engineering, and more.

The Information Science & Technology Institute (ISTI)’s summer programs for students address emerging challenges in national security:

- **Parallel Computing Research Internship**
  Get a foundation in modern high-performance computing (HPC) and research real problems encountered in large-scale scientific codes.
  **Target Student:** Upper-level undergraduate and early graduate students
  More: [https://parallelcomputing.lanl.gov](https://parallelcomputing.lanl.gov)

- **Supercomputer Institute**
  Learn the basics of high-performance computing system administration by executing real-world projects on computer clusters you assemble and configure.
  **Target Student:** Upper-level undergraduate and early graduate students
  More: [https://clustercomputing.lanl.gov](https://clustercomputing.lanl.gov)

- **Co-design School**
  Work on a team research project related to computational co-design, such as novel programming models on a specific application like hydrodynamics and molecular dynamics.
  **Target Student:** Upper-level graduate students
  More: [https://codesign.lanl.gov](https://codesign.lanl.gov)

- **Data Science at Scale School**
  Work with computer and application scientists to work on data-intensive science problems of interest to the laboratory, with a particular focus on using big data technologies.
  **Target Student:** Upper-level undergraduate and graduate students
  More: [https://datascience.lanl.gov](https://datascience.lanl.gov)

- **Cyber Security School**
  Prepare for your cyber security career by joining one of two tracks: incident response to learn the necessary concepts and skills to investigate cyber security incidents, or research to develop innovative solutions to address national cyber threats.
  **Target Student:** Upper-level undergraduate and graduate students
  More: [https://cyberfire.lanl.gov/school](https://cyberfire.lanl.gov/school)

- **Applied Machine Learning Research Internship**
  Apply machine learning methods to real-world scientific data analysis problems via team research projects.
  **Target Student:** Graduate students
  More: [https://aml.lanl.gov](https://aml.lanl.gov)

- **Quantum Computing School**
  Gain exposure to the theoretical foundations of quantum computation and become skilled at programming commercial quantum computers, such as those developed by D-Wave Systems and IBM.
  **Target Student:** Upper-level undergraduate and early graduate students
  More: [https://quantumcomputing.lanl.gov](https://quantumcomputing.lanl.gov)

For more information and to apply, visit [https://isti.lanl.gov/](https://isti.lanl.gov/).