



I&L INTERN PROGRAM

Job Description

| SUMMER 2023

About Installation & Logistics (I&L):

The mission of I&L is to plan, design, engineer, build, and maintain facilities and infrastructure across the NSA/CSS global cryptologic enterprise and to oversee the Agency's logistics support system to serve the requirements of NSA/CSS worldwide.

About the Program / Responsibilities:

The I&L Intern Program is a 12-week program for students interested in project management, master planning, data analytics, engineering fields, architecture/interior design, and supply chain/business management operations. In addition to gaining valuable work experience, interns will gain substantial exposure to NSA's mission operations through I&L's supporting functions and tours of various sites. Interns will have the opportunity to interact with leaders on a daily basis and receive unparalleled mentorship and professional development. The internship will culminate in a final presentation to Senior Leadership, describing their project impact and summer experience at the NSA. By the end of the program, students will be skillful in their understanding of the infrastructure backbone of an intelligence agency.

Applicable areas of study include, but are not limited to:

- Design/Planning
 - Architecture
 - Interior Design
 - Urban Development/City Planning
- Engineering
 - Civil
 - Electrical
 - Power
 - Structural
 - Chemical
 - Fire Protection
 - Mechanical
 - Industrial
 - Control Systems
 - Environmental
 - Environmental Science
- Business/Management
 - Accounting
 - Business Management
 - Economics
 - Finance
 - Project Management/Construction Management
 - Information Systems Management
 - Data Analytics
 - Data Visualization
 - Business Statistics
 - Operations/Supply Chain Management

Previous intern projects have included:

- Contribute to NSA construction and renovation projects that support facility operations and maintenance through infrastructure planning, design development, standards application, and project management services.
- Monitor NSA's 24/7 operations at the Facilities Control Center with a team of control systems specialists, including experts on fire alarms, SCADA, and electrical systems.
- Troubleshoot mechanical and electrical system deficiencies through control management systems with a team of senior engineers and optimizing functionality for successful future operations.
- Implement processes for lean culture, process improvement, engineering analysis and design of process controls, with respect to facilities within the Intelligence Community.
- Develop metrics and estimating models based on data output from control systems to outline the facility condition and needed investment for leadership decision-making.
- Clean, compile, and condense space utilization data from across Workforce Support Activities with Python in Jupyter Notebooks.
- Utilize ArcGIS to create a mapped out dashboard for individuals to evaluate metering status of specific buildings, along with customer recommendations regarding adding meters to ensure compliance with the Office of Department of National Intelligence (ODNI) updated metering policies.
- Coordinate Master Plans for the new campus under construction, backed by quantifiable cost-benefit analyses.
- Improve operations processes through streamlining and data automation and standardization.
- Provide material management services through acquisition, logistics, storage, distribution and cargo services support to the entire Agency.
- Provide a wide range of Automation Management activities that extend to an entire organization or major components within I&L. Map I&L business processes, strategic and operational objectives to automation requirements ensuring compliancy with plans, policies and standards.