



National Security Internships

COMPUTING & ANALYTICS DIVISION

Do you want to be challenged with complex problems in national security, energy, and science? Do you want to apply cutting-edge research to make our nation safer and stronger? Join PNNL as an intern in the Computing & Analytics Division. We're looking for smart, creative, motivated students who have a passion for solving national challenges using advanced computational, statistical, and mathematical techniques. Your internship will land you in one of six technical groups:

APPLIED STATISTICS & COMPUTATIONAL MODELING

We are comprised of statisticians, mathematicians, and operations research experts who work in multi-disciplinary teams, employing powerful tools and techniques, such as mathematical modeling, optimization, statistical analysis, algorithm development, computational statistics, and operational modeling and simulation. Together, we solve complex problems in a variety of domains and provide mission-focused solutions.

Disciplines: applied mathematics, machine learning, operations research, statistics

CYBERSECURITY

We work in partnership with government agencies and industry to perform research and development to deliver "first of a kind" solutions to protect our nation's critical strategic assets. Our group's capabilities include cyber situational awareness, cyber network defense, and secure systems research and engineering, ranging from network, to software, to embedded systems.

Disciplines: computer science, cybersecurity

DATA SCIENCES & ANALYTICS

We operate on the data-to-knowledge continuum, distilling large, fast, distributed, and messy data into knowledge used to support decision processes. We apply expertise in data engineering, semantic and human language technologies, machine learning, and data architectures to create advanced computational solutions for complex analytic challenges.

Disciplines: applied machine learning, data architectures, data engineering, data science, deep learning

SOFTWARE ENGINEERING & ARCHITECTURES

We develop and deliver well-architected and engineered software-centric systems, combined with integrated software, hardware, data, and sensors. Our staff members create and deploy sustainable software and hardware systems used in high-impact production environments.

Disciplines: application development, architectures, mobile, software engineering, software testing, systems integration

VISUAL ANALYTICS

We make big, complex data useful through skillful visual design, compelling human-computer interaction, sound analytic methods, and solid engineering. We invent visual metaphors, create analysis algorithms, and deliver software products that put powerful visual analytics capabilities into users' hands.

Disciplines: data science, human-computer interaction, information visualization, user experience, virtual/augmented reality

OPERATIONS & ANALYSIS

Who is knocking on our network doors and why? We use a multitude of information sources to answer these questions and identify threats to critical networks and systems, creating tools that help us become more efficient at identifying those threats. We also provide system administration and technical support to keep those tools and systems operating at the cutting edge in mission-critical environments.

Disciplines: computer science, cybersecurity, information management

VALUABLE EXPERIENCES

PNNL interns have a unique opportunity to be part of a team focused on challenges ranging from basic science to technology transition and deployment. You will be invited to roll up your sleeves and work side-by-side with our scientists, engineers, and analysts, and challenged to be a core part of our teams. Your participation and contributions will be used to develop solutions, reports, briefings, and recommendations to national security sponsors. You will be encouraged to challenge the status quo, provide innovative alternatives, and to think three to five years down the road. Strong communication skills and the ability to learn and work at a fast pace will help you succeed in our environment.

ABOUT PNNL

Pacific Northwest National Laboratory draws on signature capabilities in chemistry, Earth sciences, and data analytics to advance scientific discovery and create solutions to the nation's toughest challenges in energy resiliency and national security. For the full listing of open PNNL positions, visit: <https://www.pnnl.gov/careers>

INTERN JOB POSTINGS

- » Undergraduate Intern - Job ID: 310962
- » Masters Intern - Job ID: 310963
- » PhD Intern - Job ID: 310964
- » Post Bachelors RA - Job ID: 310965

Sign up for updates to learn about internship and job opportunities <https://goo.gl/bcRajU>

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