



**Your journey  
continues here.**



GRADUATE EDUCATIONAL PROGRAMMING

**World-class facilities.  
World-renowned scientists.  
Cutting-edge research.**

**Life-changing  
experience.**





At Argonne National Laboratory, you'll work right alongside internationally renowned scientists addressing challenges in clean energy, environment, technology and national security, making life-changing discoveries, and using tools and technologies that don't exist together at any other facility, anywhere in the world.

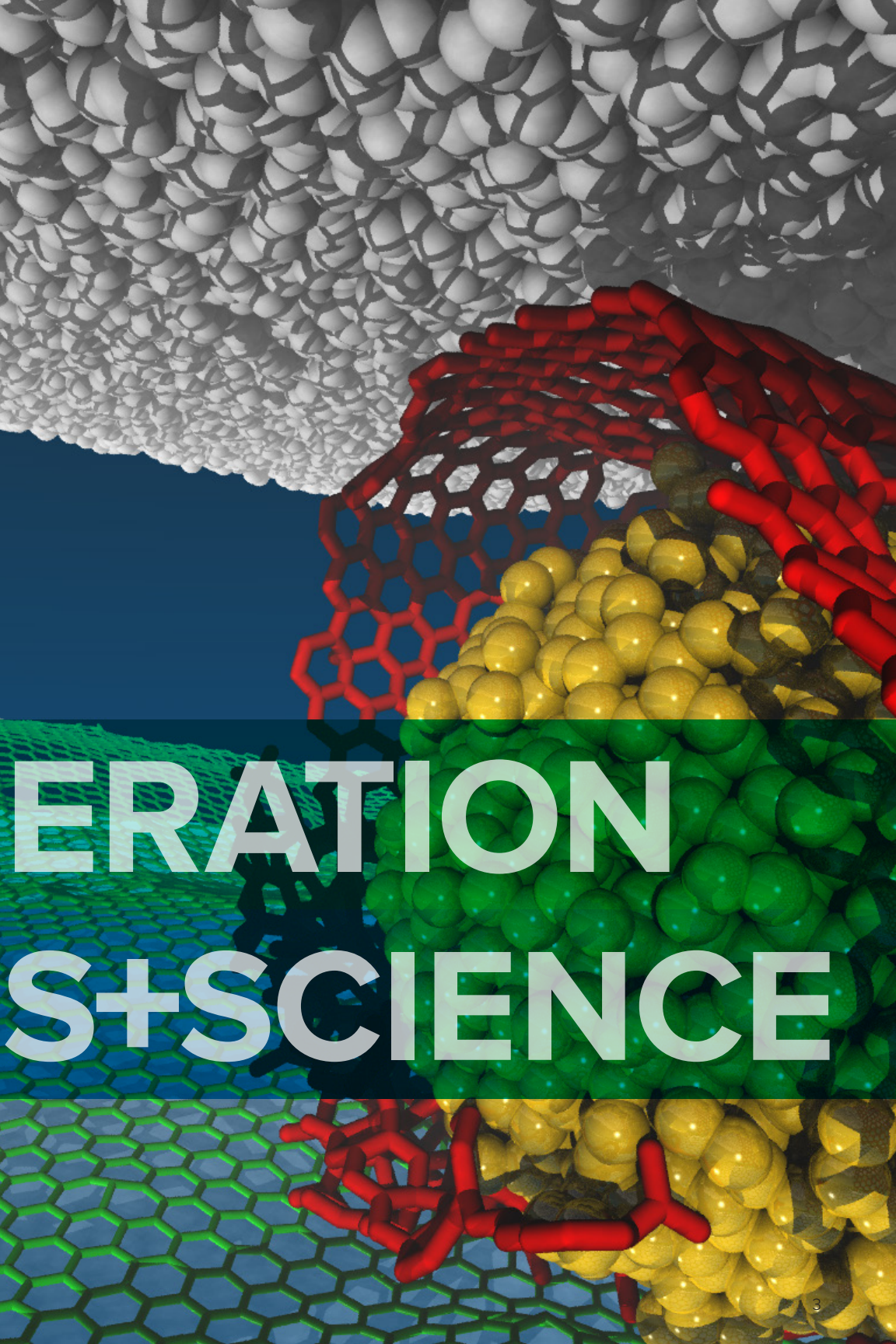


Argonne's mission is to apply a unique mix of world-class science, engineering and user facilities to deliver innovative research and technology — all while creating new knowledge. Argonne's spectrum of research appointments, cooperative education opportunities and specialized schools are designed to fit the specific needs of high-achieving graduate students.

A close-up, profile view of a woman with dark hair, wearing a white lab coat and clear safety goggles. She is looking intently at a piece of laboratory equipment, which appears to be a multi-channel pipette or a similar device with multiple blue tubes. The background is slightly blurred, showing other lab equipment and a clean, professional environment.

# NEW GEN SCIENTIST





# ERATION S+SCIENCE

# Graduate Thesis Research Programs

*Strengthen and enrich your thesis with on-site resources and professional guidance through Educational Programs' graduate research programs, done in collaboration between Argonne and your school.*

## Science Graduate Student Research (SCGSR)

Prepares graduate students for science, technology, engineering, or mathematics (STEM) careers critically important to the DOE Office of Science mission, by providing graduate thesis research opportunities at DOE laboratories. The SCGSR program provides supplemental awards to outstanding U.S. graduate students to pursue part of their graduate thesis research at a DOE laboratory/facility in areas that address scientific challenges central to the Office of Science mission. The research opportunity is expected to advance the graduate students' overall doctoral thesis while providing access to the expertise, resources, and capabilities available at the DOE laboratories/facilities.

## Visiting Student Program

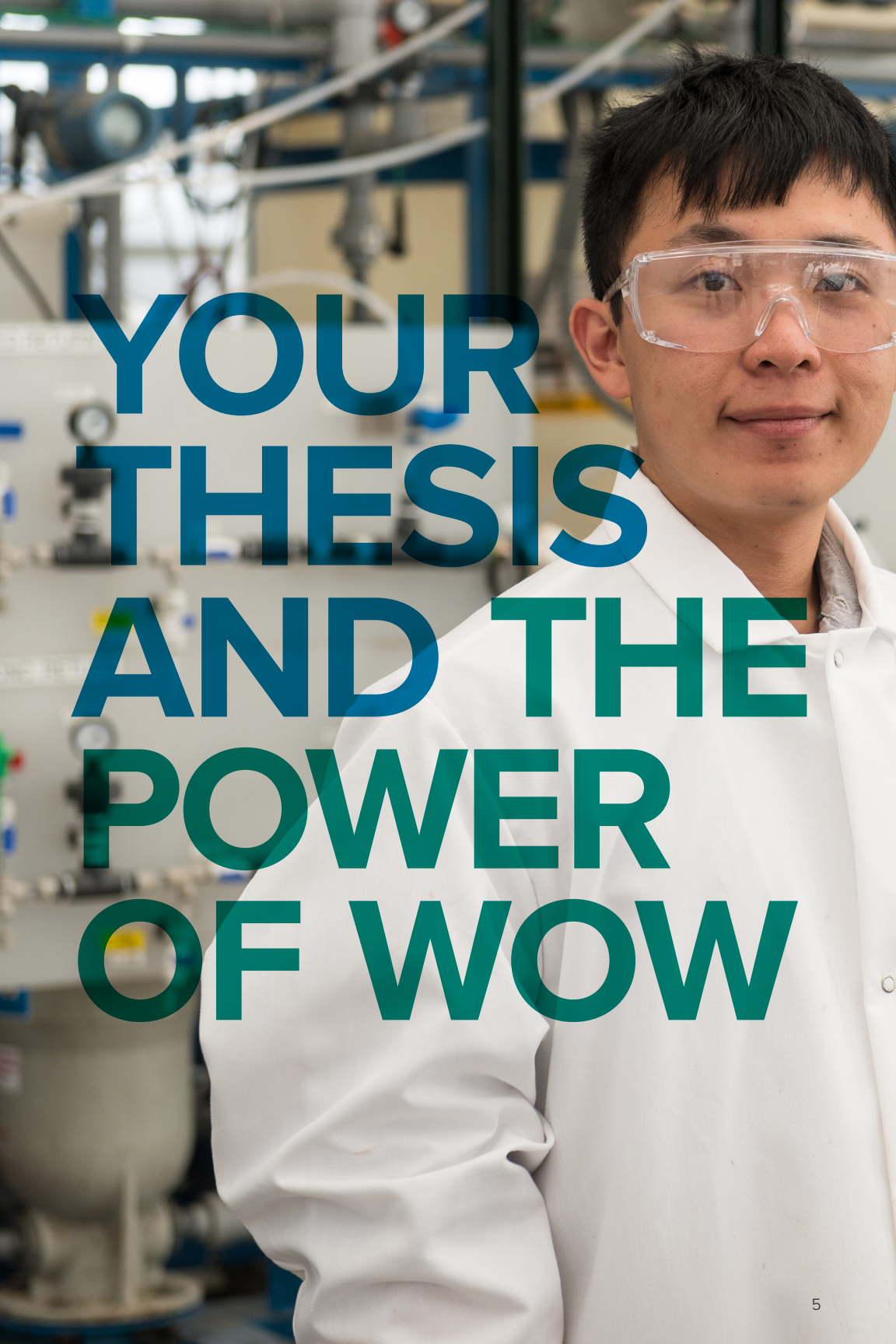
This program has one purpose: To give you the opportunity to collaborate with and use Argonne lab resources for the benefit of your thesis research.

## Graduate Research Program (GRP)

Thesis research is at the forefront of every grad student's mind; it's also the focus of the Graduate Research Program (GRP). Under the co-sponsorship of an Argonne staff member and a faculty member at your home institution, the GRP provides Master's and Ph.D. level candidates with the chance to conduct work within an Argonne research group or on a specific project for the purpose of supporting thesis work. Appointments last anywhere from three months to one year, with the opportunity to renew at national laboratories and last about 10 weeks.

For more information about these programs visit [www.anl.gov/education/graduate-programs](http://www.anl.gov/education/graduate-programs)





**YOUR  
THESIS  
AND THE  
POWER  
OF WOW**



**START  
AT THE  
TOP TO  
GET TO  
THE TOP**



# Summer Internship Opportunities

*Experience world-class science, state-of-the-art facilities, and internationally renowned professionals, where we'll help you find and advance pathways toward promising STEM careers.*

## International Safeguards Summer Internship

**Only ambitious, high-caliber students need apply!**

This internship program is delivered by The Center for Strategic Security (CSS) at Argonne National Laboratory in cooperation with the Department of Energy's National Nuclear Security Administration (NNSA). It specifically targets the field of international safeguards research sponsored by the NNSA Office of International Nuclear Safeguards, and ensures applicants directly support ongoing research programs at the laboratory, including safeguards policy studies, human capital development, knowledge management and safeguards concepts and approaches.

Want to stand out? Ideal candidates have a background in safeguards policy, nuclear nonproliferation, and/or export controls.

## CSS Summer Strategic Trade Control (STC) Program

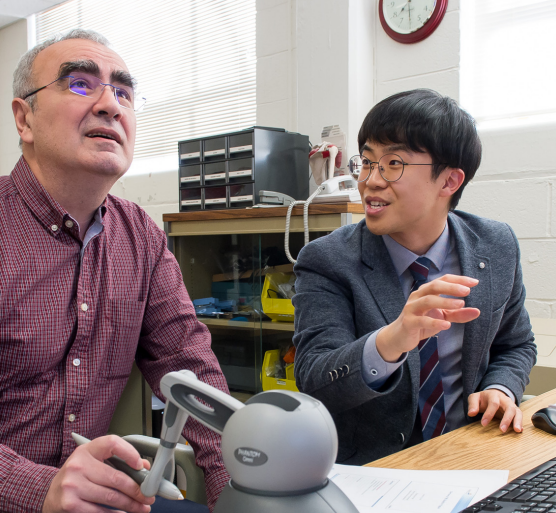
**Explore practical analysis and engagement of export controls, nonproliferation, terrorism studies or national security.**

Argonne's Center for Strategic Security (CSS) develops and implements practical approaches and technical solutions to address severe threats to national and global security. STC participants actively work with CSS employees to analyze, develop and deliver export control and nonproliferation training with our partners worldwide.

## Minority Serving Institutions Partnership Program (MSIPP)

**Tackle unique — and often unprecedented — scientific and technical challenges.**

This environmental management internship was created by the U.S. Department of Energy's Office of Environmental Management (EM), whose mission is the safe cleanup of the environmental legacy brought about by five decades of nuclear weapons development and government-sponsored nuclear energy research. MSIPP summer internships occur at select Department of Energy national laboratories and last about 10 weeks.



## Givens Summer Associate Program

**Work with Argonne scientists in designing, analyzing and implementing numerical and visualization methods.**

Internationally recognized for innovative research in high-performance computing, Argonne's Mathematics and Computer Science (MCS) Division stands on the leading edge of numerical computing and computational mathematics innovation. Givens Associate positions are targeted to graduate students beginning their careers in these areas, and need to be in an accredited Ph.D. program in mathematics, applied mathematics, computer science, or a related field at a U.S. university.

## W.J. Cody Summer Associates Program

**Hey Ph.D. students! Get the unprecedented opportunity to work with world-respected experts in the computing sciences field.**

As a Cody Associate, you'll stand side-by-side with Argonne scientists in designing, analyzing and implementing software solutions for scientific computing at extreme scale. Researchers in the Mathematics and Computer Science Division help you gain new insights into parallel operating systems and file systems; parallel programming models and communication libraries; and numerical methods and software for solving partial differential equations, uncertainty quantification and optimization problems on the future Department of Energy (DOE) leadership computing systems. You'll work in a research environment that includes the Argonne Leadership Computing Facility, with access to one of DOE's leadership-class computers.

### Program Requirements

Visit  
**[www.anl.gov/education/graduate-internships](http://www.anl.gov/education/graduate-internships)** for detailed program requirements.





## Temporary Employment Opportunities

*Work alongside scientific experts to gain critical knowledge and connections for your future career.*

### Graduate Cooperative (Co-Op) Education Program

**A real-world job in your specific discipline.**

Here's how to combine all you've learned so far with bona-fide, *paid* employment that's directed towards your academic course of study. The Co-Op Education Program places you in a real-world job at Argonne, where you'll test all your knowledge, work to expand that knowledge base, and practice the latest theories and approaches in your specific discipline — all in a practical, hands-on, hit-the-ground-running setting.

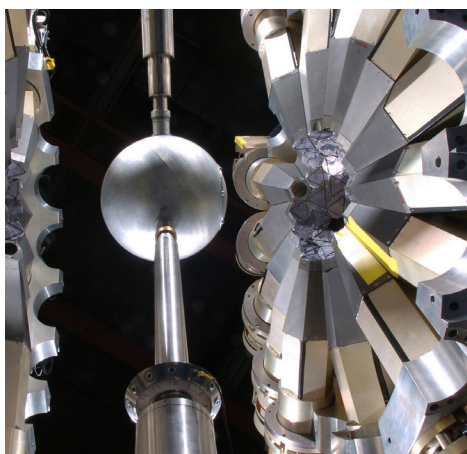
### Research Aide Program

**This is real science that makes a real impact.**

Argonne's *paid* Research Aide Program is where academia, research and work experience activate into turbo-boosting fuel. Not only does Argonne stand at the center of global science, but it places you right there alongside the best and the brightest in scientific discovery.

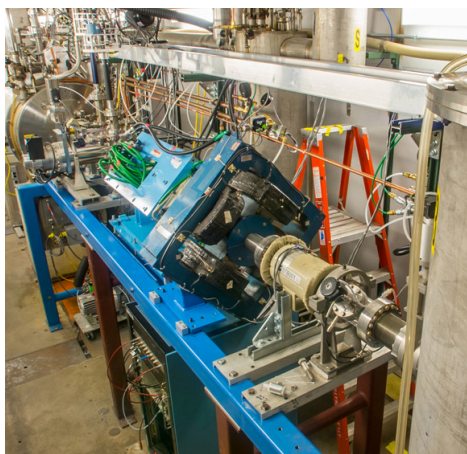
## Graduate Training Programs (Specialized Schools)

*Experience the unique technology and expertise you can only find at a national laboratory with these specialized training opportunities created in collaboration between Argonne and other national labs.*



### Exotic Beam Summer School (EBSS)

The unusual and compelling field of exotic nuclei is the focus of the Exotic Beam Summer School (EBSS), introducing students and researchers to nuclear structure, nuclear astrophysics, fundamental interactions, and the application of nuclear science and technology. Through the EBSS, researchers are able to more fully optimize the potential of next-generation nuclear physics facilities, including the Facility for Rare Isotope Beams.



Held annually, the school rotates among various laboratories and is specifically designed for graduate students and postdocs (within two years of the PhD degree). The format of the school is unique, combining lectures in the morning with hands-on activities in the afternoon.

The EBSS series is sponsored by the U.S. Department of Energy and National Science Foundation, and Argonne National Laboratory, Lawrence Berkeley National Laboratory, Oak Ridge National Laboratory, Lawrence Livermore National Laboratory, The National Superconducting Cyclotron Laboratory at Michigan State University and The Association for Research at University Nuclear Accelerators (ARUNA).





## National School of Neutron and X-ray Scattering

If the use of major neutron and x-ray facilities inspires your research, apply to the National School on Neutron and X-ray Scattering. With only 60 applicants accepted each year, the school features lectures presented by researchers from academia, industry and national laboratories; basic tutorials on the principles of scattering theory and the characteristics of the sources; and seminars on the application of scattering methods to a variety of scientific subjects. Beyond the classroom, you'll conduct short experiments at Argonne's Advanced Photon Source and at Oak Ridge National Laboratory's Spallation Neutron Source and High Flux Isotope Reactor, which provides hands-on experience for using neutron and synchrotron sources.

Here are a few of the factors that can set you apart when applying for this competitive appointment:

- Students using experimental physical analysis techniques in their research (typically getting a degree in physics, chemistry, materials science, geosciences, engineering or related fields)
- Students using *multiple* neutron and x-ray experimental techniques in their graduate research (ideally both x-rays and neutrons)
- Students who already have started their graduate research and will utilize neutron and x-ray techniques to complete it
- Typically, students are in their second or third year of research




# START YOUR NEXT CHAPTER

## ADDITIONAL RESOURCES

### Education Course Catalog

Argonne's online Education Course Catalog provides one-click access to all the courses available for the areas in which you're most interested. You can also narrow your search by division. Visit [apps.anl.gov/register/catalog/5](https://apps.anl.gov/register/catalog/5).





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Argonne   
NATIONAL LABORATORY

Learn more about Graduate  
Educational Programs at  
Argonne National Laboratory  
at [www.anl.gov/education/  
graduate-programs](http://www.anl.gov/education/graduate-programs)

## ARGONNE NATIONAL LABORATORY

- U.S. Department of Energy research facility
- Operated by the University of Chicago
- Midwest's largest federally funded R&D facility
- Located in Lemont, IL, about 25 miles (40 km) southwest of Chicago, IL (USA)
- Conducts basic and applied research in dozens of fields
- Unique suite of leading-edge and rare scientific user facilities

## CONTACT

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[www.anl.gov/education/undergraduate-programs](http://www.anl.gov/education/undergraduate-programs)



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**ENERGY**

Argonne National Laboratory is a  
U.S. Department of Energy laboratory  
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