



ALCF

Advanced Topics in AI

for Science

Student Training Series

Enabling AI for Science with AI Accelerators: A Case Study

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November 11, 2025

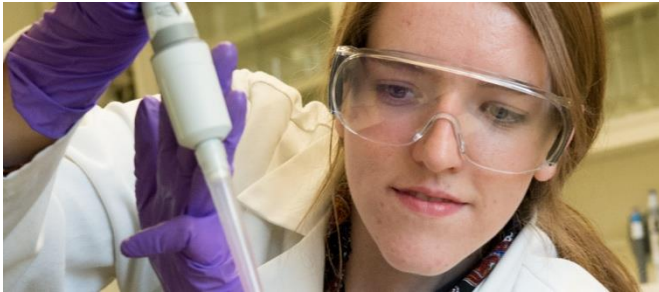


Receiving ALCF Digital Badge

- Complete and submit hands-on activities with **Microsoft Form** by **Nov 25** (two weeks after final session to receive credit towards ALCF Advanced AI digital badge
 - Participants must submit homework for all 5 session to qualify for digital badges
- Badges and Certificates of Completion will be sent out the week of Dec 1
- Reach out to ai-training-series@alcf.anl.gov if you need to confirm any submissions

Creating a Career Pathway at Argonne

Student categories



SEASONAL INTERNSHIPS

10 to 16-week opportunities to work on an independent research project under the guidance of a mentor

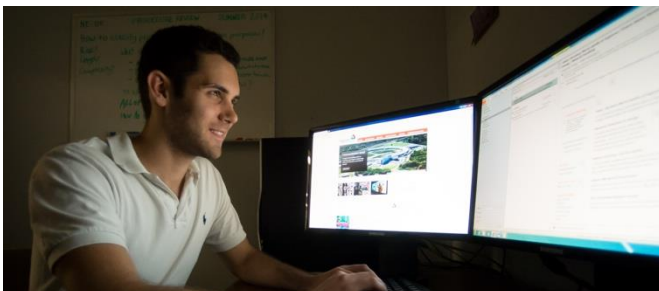
SULI, CCI, Argonne Seasonal Intern



STUDENT EMPLOYMENT

Part- or full-time employment working within a group or team on projects directed by supervisor

Research Aide, Professional Career Interns, Graduate Research



VISITING STUDENTS

Placement opportunities for students that have received outside funding

i.e. from a grant or their home institution

All Programs
are available
fully on-site,
hybrid, or
fully virtual



SPECIFIC PROGRAMS SEASONAL INTERNSHIPS



U.S. DEPARTMENT
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Argonne National Laboratory is a
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DOE Internships: SULI & CCI

Funded by Department of Energy

SULI – Science Undergraduate Laboratory Internship

CCI – Community College Internship

- **SULI:** Summer (10 weeks); Fall and Spring (16 weeks)
- **CCI:** Summer, Fall and Spring (10 weeks)
- Application allows you to apply to two (2) **DOE national laboratories**
- **Paid by stipend:** \$650/week
- Eligible for **on-site housing and travel reimbursement***
 - \$250/week housing allowance

**Summer 2026
Applications
Open Now**

**Summer 2026
Application
Deadline:
January 7, 2026**

ARGONNE INTERNSHIP: SIP

Funded by Argonne

SIP – Seasonal Intern Program

- **Year round**
 - Summer (10 weeks); Fall and Spring (16 weeks)
- This program is **only at Argonne**
- Can be **undergraduate or graduate***
- Conduct research on a scientific team with multiple projects
- **Paid by stipend: \$650/week**
- Eligible for **on-site housing** and **travel reimbursement***
 - \$250/week housing allowance if residing on-site

**Summer 2026
Applications
Open Now**

**Summer 2026
Application
Deadline:
February 6, 2026**

Eligibility requirements

- Must be **currently enrolled full-time** at an accredited U.S. institution
- Cumulative minimum grade point average (GPA) of **3.0** on a **4.0 scale**
- **18 years or older** at the time the internship begins
- U.S. citizen or Legal Permanent Resident at the time of applying
- Pass a screening drug test, if appointment is in-person

FAQs

I'm an international student, how can I participate with national labs?

- Seasonal internships are the only category who restrict citizenship. Stay tuned to hear about our other categories.

I am a freshman, can I participate?

- Yes, DOE recently opened their internships to include freshmen students.

I loved my seasonal internship, how can I stay when it's over?

- Mentors have the option to “convert” you over to another category if you would like to stay on after your 10- or 16-week appointment ends.

SPECIFIC PROGRAMS STUDENT EMPLOYMENT



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Research Aide & Professional career intern

Student Employment

- **Positions for undergraduate and graduate students** to perform assigned specific tasks to support a group or division's research or operational needs
- Students can **generally apply** or can **apply for specific listed positions**
- **Students earn a salary** and are expected to possess skills and knowledge required to do the work when they arrive
- Appointments can be summer-only or year-round.
- Participation is open to non-U.S. citizens

Student employment is more flexible than internships: students can work short-term or long-term appointments; and work part-time or full-time hours as their university schedule demands.

Applications are always open. To start in Summer 2026, apply between October and March for the best consideration.

SPECIFIC PROGRAMS VISITING STUDENT



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Visiting student program

Externally Funded Placements

- **Explore Research Opportunities:** Visit our Research Index to browse ongoing projects and identify potential research areas that align with your interests.
- **Connect with Researchers:** Use the contact information provided in the Research Index to reach out to Argonne researchers whose work interests you. Discuss potential collaboration opportunities and how your research goals align with their projects.
- **Secure Funding:** Ensure you have funding secured from your university or another institution before proceeding.
- **Initiate the Process:** Once you've connected with an Argonne researcher and secured funding, contact students@anl.gov to initiate the hiring process.

Students can work short-term or long-term appointments; and work part-time or full-time hours as their university schedule demands.

How to connect with a mentor?


Reach Out!

- Use Argonne's [Research Index](#) to search scientific topics and disciplines
- When reading about a specific project, the “Related People” section in the right sidebar links to the research group’s biographies and email addresses.
- Our researchers encourage students to contact them directly, to inquire about student internship opportunities on their project

RELATED PEOPLE


**Jeffrey S.
Spangenberg**

Group Leader, Materials
Recycling



Qiang Dai

Sustainability Analyst



Example on a battery recycling project.

Go-To resources

ARGONNE
UNDERGRADUATE PROGRAMS

www.anl.gov/education/undergraduate-programs

ARGONNE
GRADUATE PROGRAMS

www.anl.gov/education/graduate-programs

DEPARTMENT OF ENERGY
PROGRAMS

www.science.osti.gov/wdts

For questions or inquiries, email students@anl.gov.

Computational Science Graduate Fellowship

Funded by Department of Energy

- Seeking senior undergrads and 1st year doctoral candidates looking to pursue PhD in computational science field
- Participate in at least one 12-week **summer practicum** experience at a national lab
- Attend annual program review with current fellows, alumni, and DOE lab staff each summer in DC
- Annual stipend of \$45,000/year for three years + tuition to support PhD studies

**Application due
for 2026-2027
Cohort:
January 22,
2026**

ORNL Pathways To Computing Program (PCIP)

- **Hands-on Experience in Computing** – A 10-week summer internship for **undergraduates** where students work on real-world projects in computer science, high-performance computing (HPC), system administration, AI, QC and more
- **Access to Cutting-Edge Technology** – Participants get exposure to ORNL's world-class computing resources, including Frontier , one of the most powerful supercomputer in the world
- **Encouraging a vibrant intutional engagement** – The program encourages **ALL** qualified candidates to apply – **no citizenship requirement.**

**Application due
Summer 2026:
January 30, 2026**



Upcoming advanced ALCF training program

Argonne Training Program for Extreme-Scale Computing

Intensive 2-week bootcamp in August 2025

Dive deep into the tools and skills needed to use leadership-class computing systems

Applications open in Jan. 2026



Postdocs and Careers

Computing Postdoc and Career Opportunities

Seeking postdocs in computational science, AI/ML, and beyond



Post-Series Evaluation

ALCF Advanced Topics in AI: Post-Series Survey Fall 2025



<https://forms.office.com/g/tqMpuSJjn>