

January 12, 2024

# COSM MONTHLY ANNOUNCEMENTS NEWSLETTER



Photo of COSM Department Chairs & SMART Center Staff posing for their Charlie Brown Holiday Card

## COMEDY Corner



### cation

cat-i-on

Pronunciation: [kat-ahy-uhn, -on]

-noun *Chemistry*.

1. an ion with *paws-itive* charge.
2. the cutest ion ever.

Submit your Math & Science jokes/memes to be possibly featured in the next issue to [ksabin@astate.edu](mailto:ksabin@astate.edu)

This monthly newsletter is a great resource for all CoSM students to stay up to date on current Internships, Research Opportunities, Summer Programs, and so much more!



### Internships

An internship provides you with experience related to your major. It is an opportunity to learn how to synthesize theory into practice.

### Research Opportunities

Conduct research as individual as your interests. We have many outstanding researchers that are available to mentor students through their endeavors.

### Summer Programs

There are many benefits to summer programs. You can explore your passions, keep your skills sharp, and access research opportunities to name a few.

# TABLE OF CONTENTS

## Internships

- Oak Ridge Office of Environmental Management Science Education & Internship Program pg. 6
- Department of Homeland Security Transportation Security Laboratory Summer Program pg. 7  
**(Application Due 1/16)**
- Summer field assistantship pg. 8
- Minority Educational Institution Student Partnership Program pg. 9 **(Application Due 2/15)**

## Research Opportunities

- Vehicle Technologies Office: Electrification Technology Development pg. 10  
**(Rolling Applications: Due Dates 1/15 & 6/15)**
- Industrial Efficiency & Decarbonization Office Fellow pg. 11  
**(Rolling Applications: Due Dates 1/15 & 6/15)**
- Advanced Materials & Manufacturing Technologies Office Fellow pg. 12  
**(Rolling Applications: Due Dates 1/15 & 6/15)**
- Electric Vehicles Charging Fellow pg. 13 **(Rolling Applications: Due Dates 1/15 & 6/15)**
- National Institute of Environmental Health Sciences Scholar Connect Program pg. 14  
**(Application Due 2/16)**
- Curious Cardiovascular Undergraduate Research Initiative pg. 15 **(Application Due 2/12)**
- RAIN REU internship pg. 16 **(Application Due 1/17)**
- Chemistry Summer Research Experience at Ole Miss pg. 17 **(Application Due 2/26)**
- I-Cemiture Summer Research in France pg. 18 **(Application Due 1/26)**
- Nanoengineering Research Experience at Ole Miss pg. 19 **(Application Due 3/4)**

## Graduate Opportunities

- Strategic Analysis Fellowship pg. 20
- Amgen Scholars Program pg. 21 **(Application Deadline 2/1)**
- Industrial Decarbonization Fellowship pg. 22 **(Application Deadline 1/15)**
- Battery Materials and Manufacturing Supply Chain Fellow pg. 23
- Hydrogen Shot Fellow pg. 24
- Solar Energy Technology Office Fellow pg. 25
- Science, Technology, and Policy Fellow pg. 26

**January 12, 2024**

# **TABLE OF CONTENTS**

## **Other Opportunities**

- SMART Center Tutoring pg. 27
- Detailed SMART Center Tutoring Schedule pg. 28
- Part -Time Pharmacy Tech Position pg. 29
- Environmental Science Club & Women in Science Clothing Swap pg. 30
- Minority Educational Institution Student Partnership Program pg. 31
- Wifi on the Go pg. 32

January 12, 2024

# HIGHLIGHTED POST



**COSM AMBASSADOR  
APPLICATIONS OPEN**

The SMART Center is  
accepting applications  
through March 15, 2024

**Scan the QR Code above to apply!**

For more information, please contact  
Porsha McGregor at [pneal@astate.edu](mailto:pneal@astate.edu)

**January 12, 2024**

# HIGHLIGHTED POST

## **The Arkansas State Privately Funded Scholarship Portal is NOW OPEN!**

If you are a High School Senior, incoming student, or a currently enrolled student, the time to apply is now.

**The portal is open from October 1, 2023 through February 1, 2024.**

This application portal is a one-stop application process which allows students to complete an application one time, not having to apply to multiple scholarships, using multiple applications. Once you submit your application, our software will match your application against the criteria of ALL of our privately funded scholarships. You may be surprised at your eligibility based on your answers. Our scholarships are unique. Their criteria are based on an array of items which can include: the county you live, extracurricular activities, GPA, College, and Major. We have scholarships for single parents, minorities, and even one that is specific as to whether your parent is an Arkansas State Alum!

Our scholarships do not always use the standard 'cookie cutter' scholarship criteria. Every student has a unique story, and our donors are trying to help those students excel on their educational journey by lightening the burden of funding. These privately funded scholarships are funded by people, businesses or corporations who want our students to succeed and felt giving back through a scholarship was the best way to do so! Several of our scholarships are in memory or in honor of someone who has ties to Arkansas, Education or Arkansas State University! Since these scholarships were created by generous donors, we require a thank you note to be sent to each donor. Showing appreciation for receiving these funds is extremely important; so much so that failure to write a donor thank you note, could result in forfeiture of the award. You are not guaranteed to receive a scholarship, but it's a simple process and the results may surprise you! Why should you apply? Arkansas State Privately Funded Scholarships have offered 1.25 million dollars in scholarships, so far, for the 2023-2024 academic year. Why not try and be on the list as a recipient for the 2024-2025 academic year?

**January 12, 2024**

# INTERNSHIPS

## **Oak Ridge Office of Environmental Management Science Education and Internship Program**

Apply now: <https://zintellect.com/Opportunity/Details/OREM-2022>

The Oak Ridge office of the U.S. Department of Energy (DOE)'s Office of Environmental Management(EM) <https://www.energy.gov/em/oak-ridge> is seeking fellows to engage in projects and activities related to DOE's Legacy Clean-up Missions at East Tennessee Technology Park, Oak Ridge National Laboratory, and Y-12 National Security Complex sites. EM's first priority is to ensure the safety and health of the public and EM's workforce while continuing to protect the environment. The Oak Ridge office carries out the mission using sound business practices, innovative management approaches, and science and technology to reduce risks and costs within the EM regulatory framework. The fellow will receive training, coaching and mentoring from the EM-92 branch chiefs to effectively accomplish appointment goals. Appointments may involve projects focused on

- **Engineering**
- **Science**
- **Research**
- **Technology**
- **Policy**
- **Business**
- **Government Relations**

### Qualifications

To qualify for the DOE Oak Ridge Environmental Management Science Education and Internship Program, you will need to meet the following eligibility criteria:

- **Have a cumulative GPA of 3.0 on a 4.0 scale.**
- **U.S. citizenship (verification will be required if selected)**
- **Be at least 18 years of age at the time the appointment begins**
- **Postgraduate of an accredited institute of higher education**

The EM Oak Ridge office is seeking qualified candidates who possess the appropriate bachelor's/master's degrees in engineering, physical science, and business/accounting.

### **How to Apply**

Submit your application in Zintellect at the following link:

<https://zintellect.com/Opportunity/Details/OREM-2022>

January 12, 2024

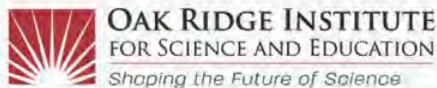
# INTERNSHIPS

## Department of Homeland Security Transportation Security Laboratory Summer Program 2024

### Are you an undergraduate or graduate student looking for a paid Summer opportunity?

The Department of Homeland Security (DHS) Transportation Security Laboratory (TSL) Visiting Scientist Program is offering 10-week summer internships for undergraduate and graduate students. This internship provides the opportunity to independently utilize your skills and engage with experts to move the proposed research forward.

Benefits include a competitive stipend and an opportunity for a monthly housing supplement during the appointment.



**Homeland  
Security**

Science and Technology

### Apply Now!

Application Deadline is January 16, 2024

Visit:

<https://www.zintellect.com/Opportunity/Details/DHS-TSL-Summer-2024> or scan the QR code below for more details and to apply!

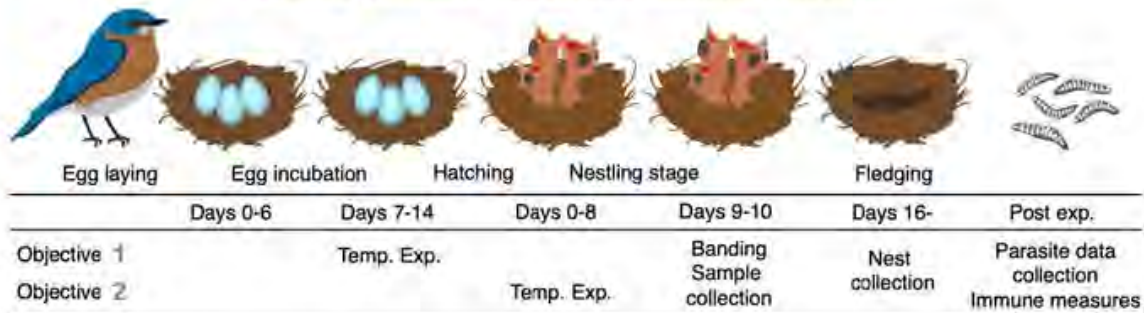


Email [DHSed@orau.org](mailto:DHSed@orau.org) with any questions!

# INTERNSHIPS

## Internship/Research Opportunity Mid-March to Mid-August 2024

*How does temperature during incubation influence developmental immunity against parasites in Eastern Bluebird nestlings?*



**Location:** Jonesboro, AR

**Times:** Everyday from 7 am on, but I can work with your schedule

**Compensation:**

- In kind: Internship, Special Problem, Honors thesis
- Monetary: up to \$5,000 based on hours invested

**Qualifications:** no experience required, but

- be enthusiastic and willing to learn
- be punctual
- keep open communication
- be ok with bugs and Arkansas weather

**Tasks:**

- Collecting data on nesting activities and resighting/trapping parents
- Setting up temperature treatment groups
- Banding and recording basic data on chicks and their parents
- Collecting feathers, feces, and blood samples from chicks
- Quantifying hemoglobin levels and separating plasma from red blood cells
- Collecting nests once chicks are gone

**Contact:** Dr. Virginie Rolland ([vrolland@astate.edu](mailto:vrolland@astate.edu))

This Nest Parasite Community Science Project is a collaboration led by Dr. Knutie at University of Connecticut.

 @jonesborobluebirdtrail, @parasitesquad





# INTERNSHIPS



**12-WEEK PAID  
SUMMER INTERSHIP**



### NETWORK

Engage with federal employees, National Lab Scientists, and other interns.



### LEARN

Acquire new and applicable skills to support your education and future career path.



### EXPERIENCE

Whether virtual or hybrid, be fully immersed in the federal sector and gain hands-on experience.



**MEISPP@ORISE.  
ORAU.GOV**

**ALL MAJORS  
ELIGIBLE**

## BENEFITS

- Weekly Stipend
- Housing Allowance
- Relocation Allowance
- Free trip to Washington, D.C. for Orientation

## ELIGIBILITY

- US Citizen
- Currently enrolled or recently graduated (SP22 or later) from an eligible Minority Serving Institution
- Minimum 3.0 GPA

**APPLY  
TODAY!**

Deadline:  
February 15,  
2024



**WANT TO  
LEARN MORE?  
ATTEND OUR  
WEBINARS!**



U.S. DEPARTMENT OF  
**ENERGY**



**VARIOUS  
LOCATIONS:  
REMOTE OR  
HYBRID**

January 12, 2024

# RESEARCH OPPORTUNITIES



## ELECTRIFICATION TECHNOLOGY DEVELOPMENT FELLOW

Vehicle Technologies Office

APPLY NOW!



### BENEFITS

- **COMPETITIVE STIPEND**
- **RELOCATION REIMBURSEMENT UP TO \$5,000**
- **\$10,000 TRAVEL/RESEARCH MATERIALS ALLOWANCE**
- **HEALTH INSURANCE**
- **FEDERAL HOLIDAYS OBSERVED**

### What You Will Do

Under the guidance of a mentor...

#### INNOVATE

Collaborate with DOE employees and National Laboratory experts to reduce the carbon footprint of the 3 trillion vehicle miles traveled each day! Collect data and analyze the latest technology in modern applications of electrification.

#### ENGAGE

Engage in research efforts supporting increased electric vehicle charging and electrification with broader initiatives such as increased generation from renewables and grid modernization. Write and publish technical reports documenting the data, analysis, and resulting insights of work/projects performed.

#### EXPERIENCE

Organize workshops and conferences with key stakeholders and federal staff to augment R&D portfolio and suggest new initiatives to further transportation electrification and vehicle-grid integration.



 [DOE-RPP@orise.orau.gov](mailto:DOE-RPP@orise.orau.gov)

 **OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION**

# RESEARCH OPPORTUNITIES

U.S. DEPARTMENT OF **ENERGY** | Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

## Industrial Efficiency and Decarbonization Office Fellow

APPLY TODAY!



### OUR MISSION

IEDO is critical to putting the Nation on a pathway to achieve net-zero carbon emissions by 2050 and necessary for a national program of research and workforce development to drive energy, materials/production efficiency, and decarbonization across the industrial sector.

### Benefits

- Competitive Stipend
- Relocation reimbursement up to \$5,000
- \$10,000 Travel/Research Materials Allowance
- Health Insurance
- Federal holidays observed



DOE HEADQUARTERS WASHINGTON, D.C.




Drive Innovation in U.S. manufacturing and clean energy



Collaborate with National Lab experts and federal employees



New materials, waste reduction, and recycling technologies

 DOE-RPP@ORISE.ORAU.GOV

 OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

# RESEARCH OPPORTUNITIES

## Advanced Materials and Manufacturing Technologies Office U.S. Department of Energy

# EE RE

### Location



Washington, DC  
DOE Headquarters

### Benefits

Fellows will be eligible for:

- Stipend
- Health Insurance
- Relocation Reimbursement up to \$5,000
- \$10,000 Travel and Research Materials Allowance
- Federal Holidays Observed

### What Will You Do?

Under the guidance of a mentor...

#### Energy Policy and Analysis:



Provide input for analysis on industrial decarbonization, circular economy, and workforce development and assess the potential for next generation materials and processes

#### Innovation



Evaluate approaches to achieve practical minimum energy requirements and minimum lifecycle energy to manufacture and deploy next generation technologies and identify new materials efficiency, waste reduction and recycling technologies

#### Communication:



Engage with DOE staff and National Laboratory experts to prepare and present written and oral briefings and reports to senior program staff, DOE leadership, external partners and industry stakeholders.



 [DOE-RPP@orise.orau.gov](mailto:DOE-RPP@orise.orau.gov)  
<https://www.zintellect.com/Opportunity/Details/DOE-EERE-STP-AMMTO-2023-1000>



January 12, 2024

# RESEARCH OPPORTUNITIES

## Electric Vehicles Charging Fellow

Apply Today! <https://www.zintellect.com/Opportunity/Details/DOE-EERE-STP-JOET-2022>

The Electric Vehicles Charging Fellow opportunity with the Joint Office of Energy and Transportation is now accepting applications.

### What will I be doing?

You will be provided with the opportunity to participate in JOET projects and be mentored by experienced JOET staff. JOET also supports fellows in pursuing further professional development opportunities, such as trainings, workshops, and conferences. Interacting closely with their JOET mentor(s), the fellows will learn how to:

- Review, manage, and make recommendations on the EV charging proposals for the National Electric Vehicle Infrastructure Formula and Grant Programs as executed by the Federal Highway Administration.
- Build relationships to engage programs and public-private partnerships to increase the speed of transitioning to EVs and deploying the supporting infrastructure.
- Engage in critical aspects of the Joint Office of Energy and Transportation's mission.
- Conduct technical reviews of projects funded by the Joint Office.
- Draft key documents summarizing program strategy and accomplishments, technoeconomic analysis to inform the Joint Office activities.
- Collaborate and direct the modeling and analysis of vehicle charging infrastructure and electric grid integration.
- Organize meetings, workshops, and conferences to solicit feedback from expert stakeholders on the Joint Office activities
- Engage on the development and implementation of standards and requirements for EV charging to ensure a high-quality driver experience.
- Collaborate with DOE, DOT and other agencies on EV charging plans, transit and school bus electrification, research, and reports.
- Review and analyze project progress and other technical reports.
- Engage with DOE to communicate with researchers to address questions and issues that arise.
- Collaborate on the scoping of key demonstration and proof of concept projects that will enable and accelerate the Joint Office vision.

### Why should I apply?

You will become part of a group of highly-trained scientists and engineers with the education, background, and experience to be part of the workforce that supports the DOE's mission in the future. You will enhance your education and training in electric vehicle and energy policy, increase your marketability in these disciplines, collaborate with top scientists and engineers, and gain insight into career opportunities through your experiences and under the leadership of your mentor.

Where will I be located? Washington, D.C.

### The details:

You will receive a competitive stipend, an allowance to offset the costs of health insurance, research travel and materials up to \$10,000, and relocation expenses reimbursement up to \$5,000.

You must be a U.S. Citizen or Lawful Permanent Resident and completed or be in the process of completing a bachelor's, master's, or doctoral degree.

Program Website: <https://www.energy.gov/eere/education/energy-efficiency-and-renewable-energyscience-technology-and-policy-program>

Questions? Email [DOE-RPP@orise.orau.gov](mailto:DOE-RPP@orise.orau.gov). Please list the reference code [DOE-EERE-STP-JOET-2022] for this opportunity in the subject line of your email.

January 12, 2024

# RESEARCH OPPORTUNITIES

## NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES SCHOLARS CONNECT PROGRAM 2024



The National Institutes of Health (NIH), National Institute of Environmental Health Sciences (NIEHS) office is seeking undergraduate students to participate in the NIEHS Scholars Connect Program (NSCP). The program is designed to provide environmental health sciences research training for science, technology, engineering, and mathematics (STEM)-focused undergraduate students.

### Benefits:

Competitive monthly stipend determined by academic level.

### OUR LOCATION



Research Triangle Park, NC.  
Must live within 50 miles to participate



### Program Dates:

June 2024 - April 2025



### Apply Here!

Application Deadline:  
February 16, 2024

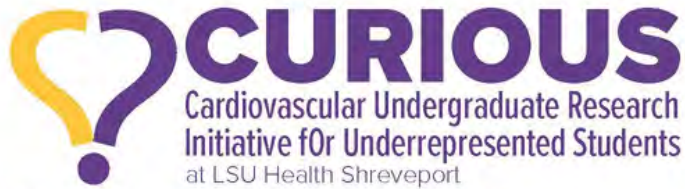


Email: [nihiprograms@orau.org](mailto:nihiprograms@orau.org)

<https://www.zintellect.com/Opportunity/Details/NIH-NIEHS-SCP-2024>

January 12, 2024

# RESEARCH OPPORTUNITIES



Are you a science major who's interested in a research career related to cardiovascular diseases?

- Learn cutting edge techniques
- Use state-of-the-art equipment
- Enhance your career development
- Attend/present at a national conference

Apply for LSU Health Shreveport's NIH CURIOUS summer program!



**LSU Health Shreveport**  
CENTER FOR CARDIOVASCULAR  
DISEASES AND SCIENCES

The Cardiovascular Undergraduate Research Initiative for Underrepresented Students is supported by the National Institute of General Medical Sciences of the National Institutes of Health under Award Number R25HL 147665.

LSU HEALTH SHREVEPORT  
EIGHT-WEEK NIH-FUNDED  
RESEARCH PROGRAM AND  
CAREER DEVELOPMENT

INCLUDES HOUSING  
AND \$3,800 STIPEND

2024 SUMMER PROGRAM DATES

June 10-August 2, 2024

APPLICATION DEADLINE  
February 12, 2024

APPLICATIONS OPEN FALL 2023



[www.lsuhs.edu/curious](http://www.lsuhs.edu/curious)

**Eligibility:** The CURIOUS program is for highly motivated undergraduate students currently enrolled at an accredited undergraduate university, studying science. They must be from one of the following underrepresented groups:

- Racial and ethnic minorities
- Disadvantaged (financial or education)
- With disabilities



LSU HEALTH SHREVEPORT

1501 Kings Hwy, Shreveport, LA 71103

CURIOUS Program Director

Karen Stokes, PhD

318-675-8420 | [karen.stokes@lsuhs.edu](mailto:karen.stokes@lsuhs.edu)

# RESEARCH OPPORTUNITIES



## RESEARCH EXPERIENCE FOR UNDERGRADUATES

The RAIN Research Experience for Undergraduates (REU) program focuses on adaptive management in water-limited production systems. The program aims to train future engineers and scientists with the skills and perspective necessary to address some of the world's future food and fiber needs.

The RAIN REU Program seeks students from diverse disciplines including, but not limited to:

- Agronomy
- Animal Science
- Grain Science and Industry
- Agricultural Economics
- Biological and Ag Engineering
- Biology/Microbiology
- Sociology and other Social Sciences
- Geographical Sciences
- Physics
- Chemistry
- Meteorology

RAIN REU participants will produce original research within inter-disciplinary research projects relating to rainfed agricultural production. Research spans all methods and aims to sustainably increase the productivity of rainfed agricultural systems in the SGP and while restoring and enhancing soil health, including:

- Agricultural (soil carbon sequestration, increasing precipitation and nitrogen use efficiency, reducing yield losses due to environmental stresses and weed pressure, etc.);
- Technological (use of sensors and modeling to enhance long-term strategic management and in-season tactical management; and

### Program Dates

May 38 - August 02, 2024

### Benefits

- Hands-on research experience in the field and the lab
- Mentorship by faculty advisor and a graduate student mentor
- \$9000 stipend (inclusive of travel and room and board) paid in three installments
- Professional development via workshops and research seminars on topics related to sustainability related to water-limited crop and animal production systems

### Apply by January 17, 2024

<https://bitly.ws/34q8u>



For more information:  
Anita Dille  
[dilleman@ksu.edu](mailto:dilleman@ksu.edu)



Learn more about the program at

[www.rainfedag.org/summer-reu](http://www.rainfedag.org/summer-reu)

This project was supported by Agriculture and Food Research Initiative: Competitive Grant no. 2019-68012-29888 from the USDA National Institute of Food and Agriculture.



January 12, 2024

# RESEARCH OPPORTUNITIES



The University of Mississippi seeks participants for the Ole Miss

## Summer Research Experience for Undergraduates (REU) Program in Chemistry

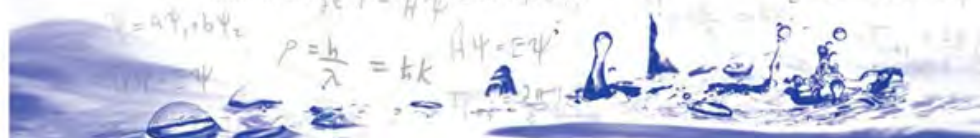
The National Science Foundation will fund ten (10) undergraduate students who have completed at least their freshman year in college but have not yet graduated.

Student participants will receive a \$6,000 stipend, housing and meal plan for 10 weeks, as well as travel assistance.

REU researchers will gain hands-on experience in a collaborative atmosphere with a broad range of topics such as laser-based molecular spectroscopy, molecular modeling, computational quantum chemistry as well as the synthesis and characterization of new nanomaterials.

Project Descriptions and Online Application can be found at <http://reu.chem.olemiss.edu>

For more information, contact Prof. Nathan I. Hammer, Program Director  
181 Coulter Hall, University of Mississippi, University, MS 38677  
662-915-3989 • [nhammer@olemiss.edu](mailto:nhammer@olemiss.edu)



January 12, 2024

# RESEARCH OPPORTUNITIES



## I-CEMITURE



*International-*  
**Collaborative Multidisciplinary Investigations**  
Through  
**Undergraduate and Graduate**  
**Research Experiences**

**Georgia Southern (GS) University**  
**Biochemistry, Chemistry & Physics Department**  
invites

*YOU to share and broaden YOUR scientific knowledge in*

## Summer 2024

- 10-weeks of Research in **France** (I-CEMITURE)
- Stipend: **\$5500**
- Accepts Undergraduate & Graduate Students
- Housing, Travel & Meal Plans provided
- Professional Development and Networking

*Multidisciplinary Projects at the Interface of  
Chemistry, Engineering, Materials, Environmental & Theoretical Science*

**Application Due:**  
**I-CEMITURE (France)-January 26, 2024**



Website: <https://cosm.georgiasouthern.edu/reu/>  
Email: [cemiture@georgiasouthern.edu](mailto:cemiture@georgiasouthern.edu)



January 12, 2024

# RESEARCH OPPORTUNITIES

*Ole Miss.*

Nanoengineering

RESEARCH EXPERIENCES FOR UNDERGRADUATES



Come perform cutting-edge research in nanobiotechnology, sustainable nanoengineering or computational nanoengineering

### *What's included*

- 10-week summer program at the University of Mississippi
- Undertake research and attend specialist seminars
- Enrich your knowledge of nanoengineering
- Present your findings to peers and academic community
- Gain skills for graduate school
- Mentor middle and high school students in STEM
- Experience historic Oxford, MS
- **You'll get a \$6,000 stipend, on-campus housing, and allowances for food and travel**

### *To apply, send us:*

- Your resume or CV
- A copy of your transcript (official or unofficial)
- A statement of research motivation
- Two letters of recommendation

Summer 2024 REU application period opens in November 2023 and closes on March 4, 2024.

Apply at [nanoreu.olemiss.edu](http://nanoreu.olemiss.edu)

This program is funded by the National Science Foundation (EEC, EPSCoR: 2148764)

[nanoreu.olemiss.edu](http://nanoreu.olemiss.edu)

# GRADUATE OPPORTUNITIES

## Strategic Analysis Fellow: Integrated Strategies Office

U.S. Department of Energy

# EE RE

### Location



Washington, D.C.  
DOE Headquarters

### Benefits

Fellows will be eligible for:

- Competitive Stipend
- Health Insurance
- Relocation Reimbursement up to \$5,000
- \$10,000 Travel/Research Materials Allowance
- Federal Holidays Observed
- Telework Hybrid Schedule

### What Will You Do?

Under the guidance of a mentor...

#### Energy Policy and Analysis:



New clean energy analysis activities, projects, and initiatives across the buildings, industry, transportation, and power sectors.

#### Innovation



Help develop, scope, and engage in analysis projects with leading experts across EERE and the National Laboratories on clean energy challenges, opportunities, and impacts (e.g., assessing and improving circularity across the clean energy system).

#### Research:



Engage in scoping and coordinating National Laboratory studies on the impacts of potential national and state policy and regulatory changes on the energy sector; advancing and institutionalizing cross-cutting priorities.



[DOE-RPP@orise.orau.gov](mailto:DOE-RPP@orise.orau.gov)



<https://www.zintellect.com/Opportunity/Details/DOE-EERE-STP-IS-2023-2002>



# GRADUATE OPPORTUNITIES

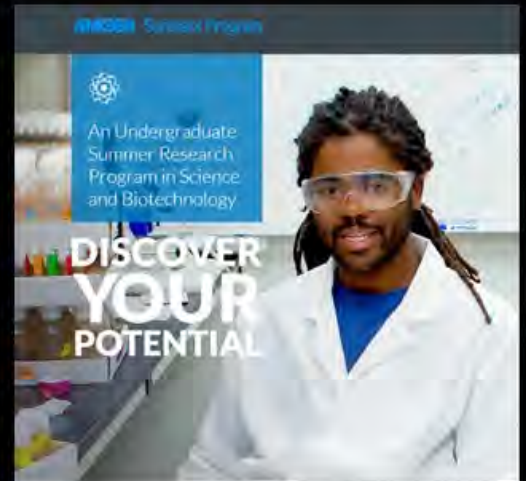


## Amgen Scholars Program

Amgen Scholars provides opportunities for graduate school-bound college students to conduct biotechnology research in summer at a top university.

There are 14 U.S. host institutions; you can apply to multiple institutions.

**Eligibility:** Sophomore, junior, or senior; research/PhD career path; U.S. citizen or permanent resident; 3.2 GPA or above



- Website: <https://amgenscholars.com/us-program/>
- Application assistance: Jennifer Salo: [jsalo@AState.edu](mailto:jsalo@AState.edu)

**\*\* NATIONAL DEADLINE: February 1, 2024 \*\***



/ArkansasState

January 12, 2024

# GRADUATE OPPORTUNITIES



U.S. DEPARTMENT OF  
**ENERGY**

NET  
ZERO

OFFICE OF  
ENERGY EFFICIENCY AND  
RENEWABLE ENERGY

## INDUSTRIAL DECARBONIZATION FELLOWSHIP



Collaborate on technical, programmatic, strategic, and policy efforts aimed at decarbonizing the industrial sector



Contribute to the implementation of energy policies by applying scientific and technical expertise



Continue your development in areas that support the industrial decarbonization mission

### BENEFITS

- Competitive Stipend
- Relocation up to \$5,000
- \$10,000 Travel/Research Materials Allowance
- Health Insurance



DOE  
Headquarters  
Washington, D.C

APPLY HERE!



Cohort 1 application closes January 15, 2024

Cohort 2 application closes on July 15, 2024

Questions? Email us at [DOE-RPP@orise.orau.gov](mailto:DOE-RPP@orise.orau.gov)

**January 12, 2024**

# GRADUATE OPPORTUNITIES

**DOE Science, Technology and Policy Opportunity – Battery Materials and Manufacturing Supply Chain Fellow-Apply Today!**

The Office of Manufacturing and Energy Supply Chains (MESC) seeks two (2) talented and committed individuals, one focused on upstream battery technologies and the other on midstream/downstream technologies. The selected fellows will learn and engage in the following:

- Engage with private-sector companies, other Federal agencies, researchers, non-governmental organizations, and key stakeholders to collect, analyze, respond to, and share data about energy supply chains to inform future decision-making and investment.
- Participate and collaborate with the Federal Consortium for Advanced Batteries (FCAB), Li-Bridge (a public-private alliance), community stakeholders, and federal staff to better understand how DOE can further improve US infrastructure to support battery manufacturing deployment and build a consolidated and robust supply chain strategy across the battery ecosystem.
- Consolidate knowledge and complete reporting for active technology deployment and commercialization applications/projects pertaining to either:
  - Battery critical minerals, materials, and key components; or,
  - Battery manufacturing, processing, and recycling
- Write and publish technical reports documenting the data, analysis, and resulting insights of projects performed.
- Research requirements, perform analysis, and interpret technical reports and papers related to one or more of the following battery topics in the context of prominent U.S. industrial sectors (e.g. transportation, grid storage, consumer electronic, etc.):
  - Supply chains, critical materials processing, manufacturing production, and recycling
- Collect and analyze the latest science and engineering technological advances in state-of-the-art applications pertaining to electrification. Consolidate knowledge and complete reporting for active battery deployment projects in one or more of the following topics:
  - Materials technologies such as direct lithium extraction, battery cathode precursor processes, and battery salt purification, among others.
  - Manufacturing processes and techniques such as cell assembly, cathode/separator/silicon-based anode production, electrolyte solvent fabrication, and mixing, among others.
  - End-of-life technologies to recover and separate critical materials from black mass such as pyrometallurgy, hydrometallurgy, or other recycling processes.
- Collaborate with National Laboratory and headquarters contractors, DOE technical project officers, project principal investigators, and government and industry representatives.
- Collaborate and link supply chain efforts related to establishing battery materials separation and processing, manufacturing, and/or recycling.
- Participate with other members of the MESC office in the development of related documentation, presentation, and reporting for assigned activities.

**Participant Benefits:** MESC will provide a supplemental stipend to offset the costs of health insurance. Participants are eligible to purchase health insurance plans offered through ORISE. Participants may receive an allowance for education and/or scientific activities up to \$10,000 as approved by MESC. Participants may be eligible to receive a relocation supplement up to \$5,000.

**Stipends will be based on appointment level and commensurate with qualifications:**

- Post-Masters: \$68,217-\$90,000/year
- Post Doctoral: \$82,992-\$129,996/year

**Apply Today! Your paragraph text**

**The details:** You must be a U.S. Citizen with a Master's, or Doctoral Degree earned within the last 60 month(s).

**Program Website:** <https://www.energy.gov/mesc/office-manufacturing-and-energy-supply-chains>

**Questions? Email [DOE-RPP@orise.orau.gov](mailto:DOE-RPP@orise.orau.gov).** Please list the reference code [DOE-STP-MESC-2023] for this opportunity in the subject line of your email.

January 12, 2024

# GRADUATE OPPORTUNITIES

## HYDROGEN SHOT FELLOW



U.S. DEPARTMENT OF ENERGY



**FELLOWS WILL ENGAGE IN ONE OF THE FOLLOWING FOCUS AREAS:**



Hydrogen Production Program



Hydrogen Infrastructure Program



Fuel Cell Technologies Program



Systems Development and Integration Program



Systems Analysis Program

### Benefits:

- Competitive Stipend
- Relocation up to \$5,000
- \$10,000 Travel and Research Allowance
- Health Insurance
- Federal Holidays Observed
- Hybrid Schedule

**APPLY TODAY!**



OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION  
*Shaping the Future of Science*



Washington, D.C., or Golden, CO

DOE-RPP@orise.orau.gov

TO BE ELIGIBLE:

US Citizen or LPR

Pursuing or Have Completed

Bachelor's, Master's, or Doctoral Degree



January 12, 2024

# GRADUATE OPPORTUNITIES

## 2024 SOLAR ENERGY TECHNOLOGY OFFICE (SETO) FELLOW

EERE Science, Technology, and Policy



OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION  
*Shaping the Future of Science*

U.S. DEPARTMENT OF ENERGY

Energy Efficiency & Renewable Energy



### Stakeholder Engagement

Engage with DOE and National Lab staff to build and maintain relationships with strategic partners working on emerging technology for building systems integration and energy efficiency programs.

### Technical Expertise

Engage with DOE staff to provide feedback and recommendations on strategic progress or course correction for a variety of technical projects relating commercial and private energy efficiency products/technologies, and solutions.



### Creative Vision

Engage in strategic planning for technology research and development, reviewing, recommending, and implementing projects that advance the SETO mission, resulting in measurable, and trackable alternative energy developments.

### Benefits:

- Competitive stipend
- Health Insurance
- Relocation up to \$5,000
- \$10,000 Travel and Research Allowance
- Federal Holidays Observed

### To be eligible for this program, applicants must:

- Be a U.S. Citizen or Lawful Permanent Resident
- Be at least 18 years of age
- Be pursuing, or have completed the requirements for, a Bachelor's, Master's, or Doctoral Degree



Application Deadline:  
January 15, 2023 11:59PM EST



<https://www.zintellect.com/Opportunity/Details/DOE-EERE-STP-SETO-2023-2101>



DOE-RPP@orise.orau.gov

January 12, 2024

# GRADUATE OPPORTUNITIES



U.S. DEPARTMENT OF  
**ENERGY**

OFFICE OF  
ENERGY EFFICIENCY AND  
RENEWABLE ENERGY

## SCIENCE, TECHNOLOGY, AND POLICY FELLOW



Engage and network with federal employees, contractors, National Lab experts, and ORISE Fellows



Contribute to the implementation of energy policies by applying scientific and technical expertise



Continue your education and involvement in areas that support the clean energy mission

### BENEFITS

- Competitive Stipend
- Relocation up to \$5,000
- \$10,000 Travel/Research Materials Allowance
- Health Insurance
- Federal Holidays Observed
- Hybrid/Remote Participation Available in Some Offices



Washington, D.C., or  
Golden, CO

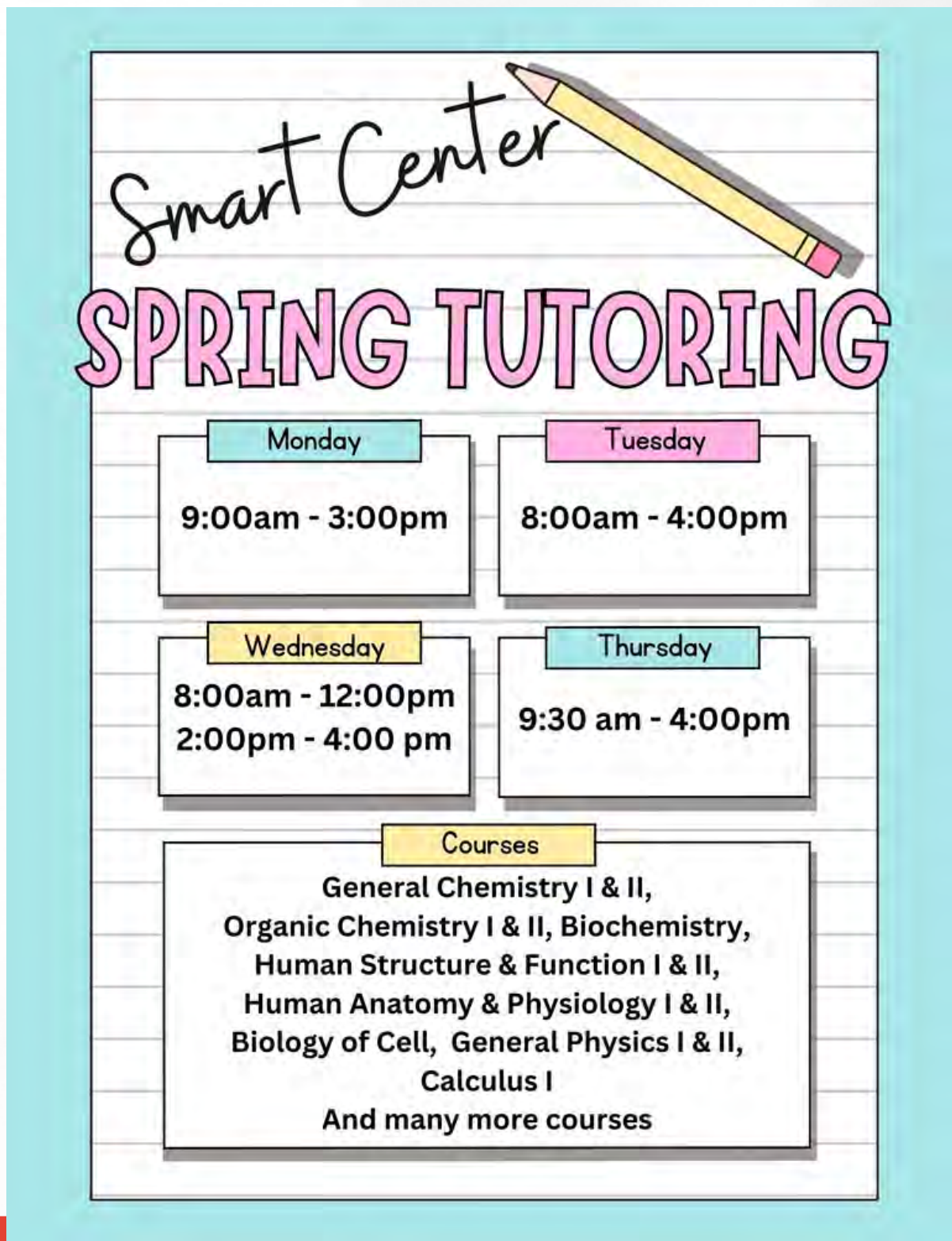
Questions? Email us at [DOE-RPP@orise.orau.gov](mailto:DOE-RPP@orise.orau.gov)

APPLY  
HERE  
➤➤➤



OAK RIDGE INSTITUTE  
FOR SCIENCE AND EDUCATION  
*Shaping the Future of Science*

# OTHER OPPORTUNITIES



A poster for Smart Center Spring Tutoring. The title 'Smart Center' is written in cursive at the top left, with a yellow pencil pointing towards it. Below the title, 'SPRING TUTORING' is written in large, pink, outlined letters. The poster lists the days and times for tutoring: Monday (9:00am - 3:00pm), Tuesday (8:00am - 4:00pm), Wednesday (8:00am - 12:00pm and 2:00pm - 4:00pm), and Thursday (9:30 am - 4:00pm). A section titled 'Courses' lists various subjects including General Chemistry, Organic Chemistry, Biochemistry, Human Structure & Function, Human Anatomy & Physiology, Biology of Cell, General Physics, and Calculus I, along with a note that many more courses are available.

Smart Center

## SPRING TUTORING

Day	Time
Monday	9:00am - 3:00pm
Tuesday	8:00am - 4:00pm
Wednesday	8:00am - 12:00pm 2:00pm - 4:00 pm
Thursday	9:30 am - 4:00pm

### Courses

General Chemistry I & II,  
Organic Chemistry I & II, Biochemistry,  
Human Structure & Function I & II,  
Human Anatomy & Physiology I & II,  
Biology of Cell, General Physics I & II,  
Calculus I  
And many more courses

# OTHER OPPORTUNITIES

## Tutor Schedule Spring 2024

Time	Monday	Tuesday	Wednesday	Thursday	Friday - Tutoring Center Closed
8am - 9am		Courtney	Alexx		
9am - 10am	Armari	Alexx (9:30), Braden (9:30), Courtney	Alexx, Armari	Alexx (9:30), Braden (9:30)	
10am - 11am	Diana, Ethan, Matthew	Alexx, Braden, Courtney	Anna, Ethan, Matthew	Alexx, Braden	
11am - 12pm	Ethan	Anna, Braden	Anna, Ethan	Armari, Braden	
12pm - 1pm	Marin	Anna		Armari	
1pm - 2pm	Marin, Matthew	Courtney		Armari, Marin	
2pm - 3pm	Matthew	Courtney, Diana, Matthew	Anna	Diana, Marin	
3pm - 4pm		Diana, Ethan	Marin	Diana	

### Subject

Human Structure & Function I & II  
Anna, Courtney, Diana,  
Braden (HSF I Only)

Microbiology  
Alexx, Anna, Diana

Biochemistry  
Anna, Alexx, Braden,  
Diana, Matthew

Biology of Animals  
Anna, Armari,  
Braden, Courtney,  
Diana, Ethan

Biology of Plants  
Anna, Armari,  
Braden, Courtney,  
Diana, Ethan

Fund. Concepts of Organic & Biochemistry  
Marin

Pre-Calculus  
Armari

Biology of the Cell  
Anna, Armari, Alexx,  
Braden, Diana, Ethan,  
Matthew

Genetics  
Alexx, Courtney,  
Diana, Ethan

Calculus I  
Armari, Diana,  
Marin

Fund. Concepts of Chemistry  
Armari, Marin

Organic Chemistry 2  
Armari, Marin,  
Matthew

Physics 1  
Alexx, Braden,  
Courtney, Matthew

General Chemistry 2  
Armari, Courtney,  
Matthew

Intro to Space Science  
Matthew

Human Anatomy & Physiology I & II  
Anna, Courtney, Diana,  
Braden (A&P I Only)

Ecology  
Alexx, Diana,  
Ethan, Marin

Physics 2  
Courtney, Marin, Matthew

Pathophysiology  
Anna

Survey of Physics for HP  
Braden, Courtney, Matthew

University Physics I  
Matthew

General Chemistry I  
Armari, Braden, Courtney,  
Marin, Matthew

Organic Chemistry I  
Braden, Marin,  
Matthew

General Biology  
Diana

January 12, 2024

# OTHER OPPORTUNITIES

Super V Drugs in Jonesboro, and would love for you to send interested students by for a brief interview!

We are seeking a part-time pharmacy technician (we'll train, no license required) that will work afternoons and approximately every other Saturday.

We're looking for a motivated pre-professional student that is available around 1:00-5:30 and Saturday 8:00-12:30.

We understand science schedules and labs and are willing to be flexible in that regard.



January 12, 2024

# OTHER OPPORTUNITIES

## Clothing Swap

JAN 29 @ 9am-7pm

**Location: Spring  
River Room in the  
Union**

Bring clothing in good condition that you can exchange for your new to you clothing. Anything that is left over will be donated to the women's shelter.

*ENVIRONMENTAL  
CLUB & WOMEN IN  
SCIENCE*



# OTHER OPPORTUNITIES

## MINORITY EDUCATIONAL INSTITUTION STUDENT PARTNERSHIP PROGRAM



Learn



Network



Experience



### BENEFITS

- Weekly Stipend
- Housing Allowance
- Relocation Allowance
- Free trip to Washington, D.C. for orientation

### ELIGIBILITY

- US Citizen
- Currently enrolled or recently graduated (SP22 or later) from an eligible Minority Serving Institution
- Minimum 3.0 GPA



ATTEND OUR WORKSHOPS



ALL MAJORS WELCOME!

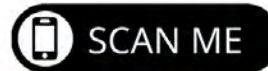
APPLY NOW!



January 12, 2024

# OTHER OPPORTUNITIES

# WIFI *on the go*



**Stay connected whenever, wherever with Wifi on the Go powered by T-Mobile!**

**With Wifi on the Go, you'll get unlimited internet access and a free 5G personal hotspot for just \$50 per month with no contract.**

**EXCLUSIVE  
PERK FOR A-STATE  
EMPLOYEES  
AND STUDENTS**



# CONTACT US

Want to see your post in the next newsletter?

Please contact Kelly Sabin  
with questions or suggestions:

[ksabin@astate.edu](mailto:ksabin@astate.edu)

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