

Historically Black Community Colleges Webinar

Presenters:

- Trina Bilal, Program Manager, Office of Economic Impact & Diversity, U.S. Department of Energy (DOE)
- Brandi Toliver, Program Manager, DOE Office of Science
- Sheila Dillard, Communications and Stakeholder Engagement Lead, DOE Bioenergy Technologies Office
- Jennifer Jackson, K-12 STEM Program Manager, Idaho National Laboratory
- Kelly Sturner, Learning Center Program Coordinator, Argonne National Laboratory
- Ashley Lovett, Communications Fellow, DOE Bioenergy Technologies Office



Feedstock



Algae



Conversion



Systems



Data

August 31, 2023

Webinar Housekeeping

- Audio connection options:
 - Computer audio
 - Dial in through your phone (best connection)
- There will be two Q&A sessions
- Automated closed captions are available
- Technical difficulties? Contact me through the chat section, lower right of your screen

Sign up for BETO news, events, and funding opportunities:
energy.gov/eere/bioenergy/beto-newsletter

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Trina Bilal

Program Manager, Office of
Economic Impact & Diversity,
U.S. Department of Energy



Department of Energy

OFFICE OF SCIENCE

Presenter: Dr. Brandi Toliver
Program Manager



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Science

SC Mission:

Delivery of scientific discoveries and major scientific tools to transform our understanding of nature and advance the energy, economic, and national security of the United States.



Nearly **29,000** Researchers Supported at
>300 Institutions and **17** DOE Labs



Steward **10** of the 17 DOE
National labs



Nearly **34,000** Users of **28** SC
Scientific Facilities



\$8.1B
(FY 23 enacted)



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Driving Discovery Science for the Nation

Discovery science supported by the Office of Science builds the foundation for ensuring America's future prosperity and competitiveness by addressing its energy, environment, and national security challenges.

Fostering Great Minds and Great Ideas

The Office of Science addresses the world's most challenging scientific problems, supporting innovation from America's brightest minds, across multiple disciplines, and at universities, DOE's national laboratories, and other research institutions.

Providing Unique, World- Class Facilities

The Office of Science stewards a suite of scientific user facilities that provide the broad scientific community with world-leading capabilities for research - from physics, materials science, and chemistry to genomics and medicine.



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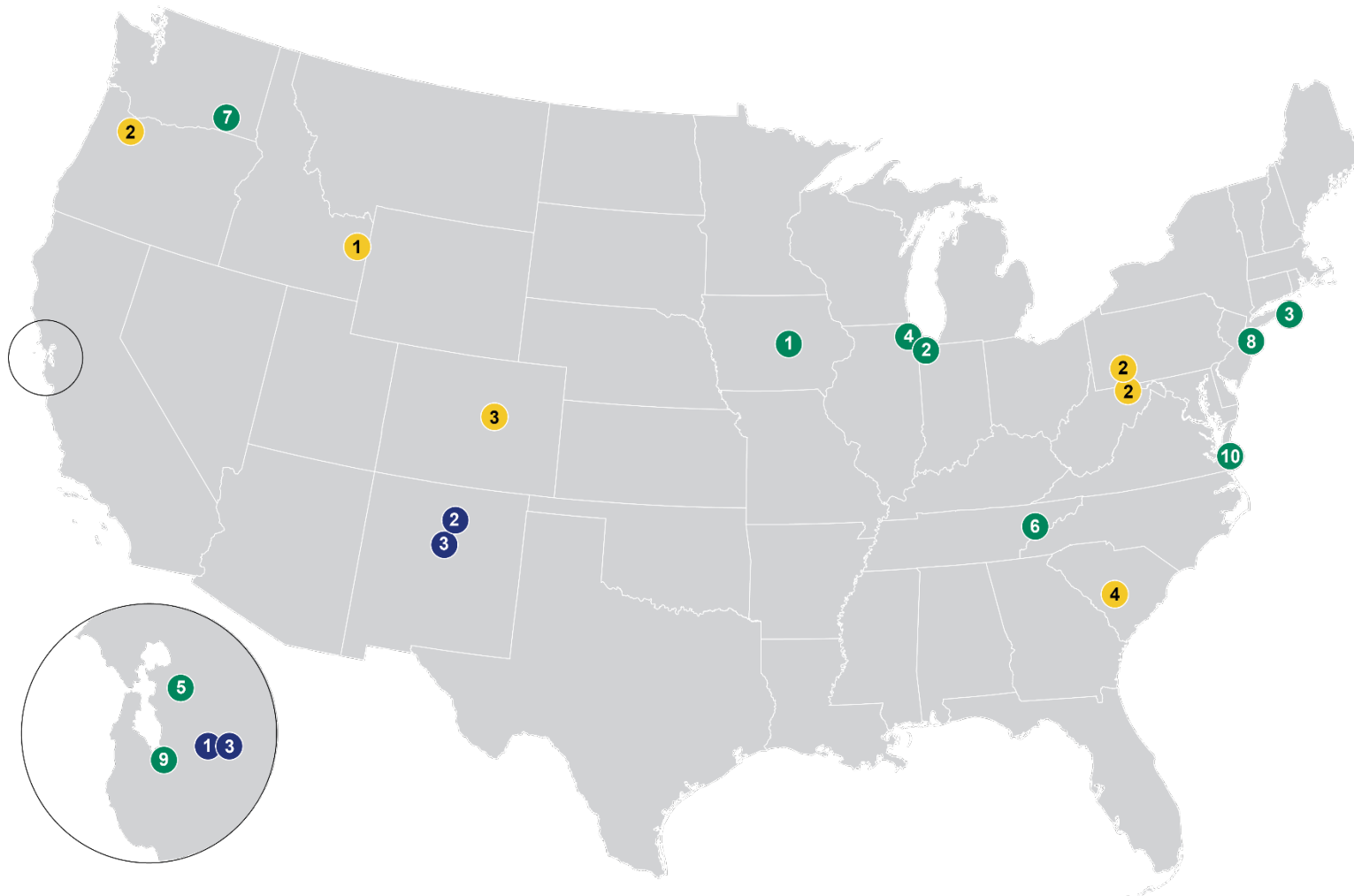
Office of
Science

[Energy.gov/science](https://energy.gov/science)

Seventeen DOE National Laboratories

Office of Science Laboratories

- 1 Ames National Laboratory**
Ames, Iowa
- 2 Argonne National Laboratory**
Argonne, Illinois
- 3 Brookhaven National Laboratory**
Upton, New York
- 4 Fermi National Accelerator Laboratory**
Batavia, Illinois
- 5 Lawrence Berkeley National Laboratory**
Berkeley, California
- 6 Oak Ridge National Laboratory**
Oak Ridge, Tennessee
- 7 Pacific Northwest National Laboratory**
Richland, Washington
- 8 Princeton Plasma Physics Laboratory**
Princeton, New Jersey
- 9 SLAC National Accelerator Laboratory**
Menlo Park, California
- 10 Thomas Jefferson National Accelerator Facility**
Newport News, Virginia



Other DOE Laboratories

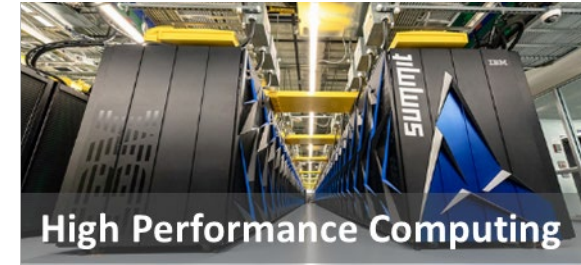
- 1 Idaho National Laboratory**
Idaho Falls, Idaho
- 2 National Energy Technology Laboratory**
Morgantown, West Virginia
Pittsburgh, Pennsylvania
Albany, Oregon
- 3 National Renewable Energy Laboratory**
Golden, Colorado
- 4 Savannah River National Laboratory**
Aiken, South Carolina

NNSA Laboratories

- 1 Lawrence Livermore National Laboratory**
Livermore, California
- 2 Los Alamos National Laboratory**
Los Alamos, New Mexico
- 3 Sandia National Laboratory**
Albuquerque, New Mexico
Livermore, California

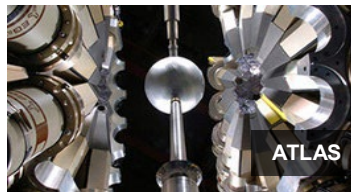
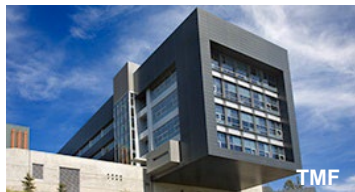
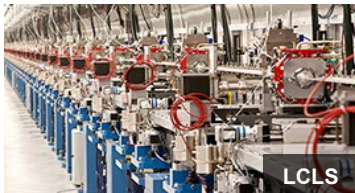
Office of Science User Facilities

- ▲ Open to all interested potential users without regard to nationality or institutional affiliation
- ▲ Each facility manages the allocation of facility resources through merit-based peer review of research proposals
- ▲ User fees are not charged for non-proprietary work if the user intends to publish the research results in the open literature
- ▲ Full cost recovery is required for proprietary work



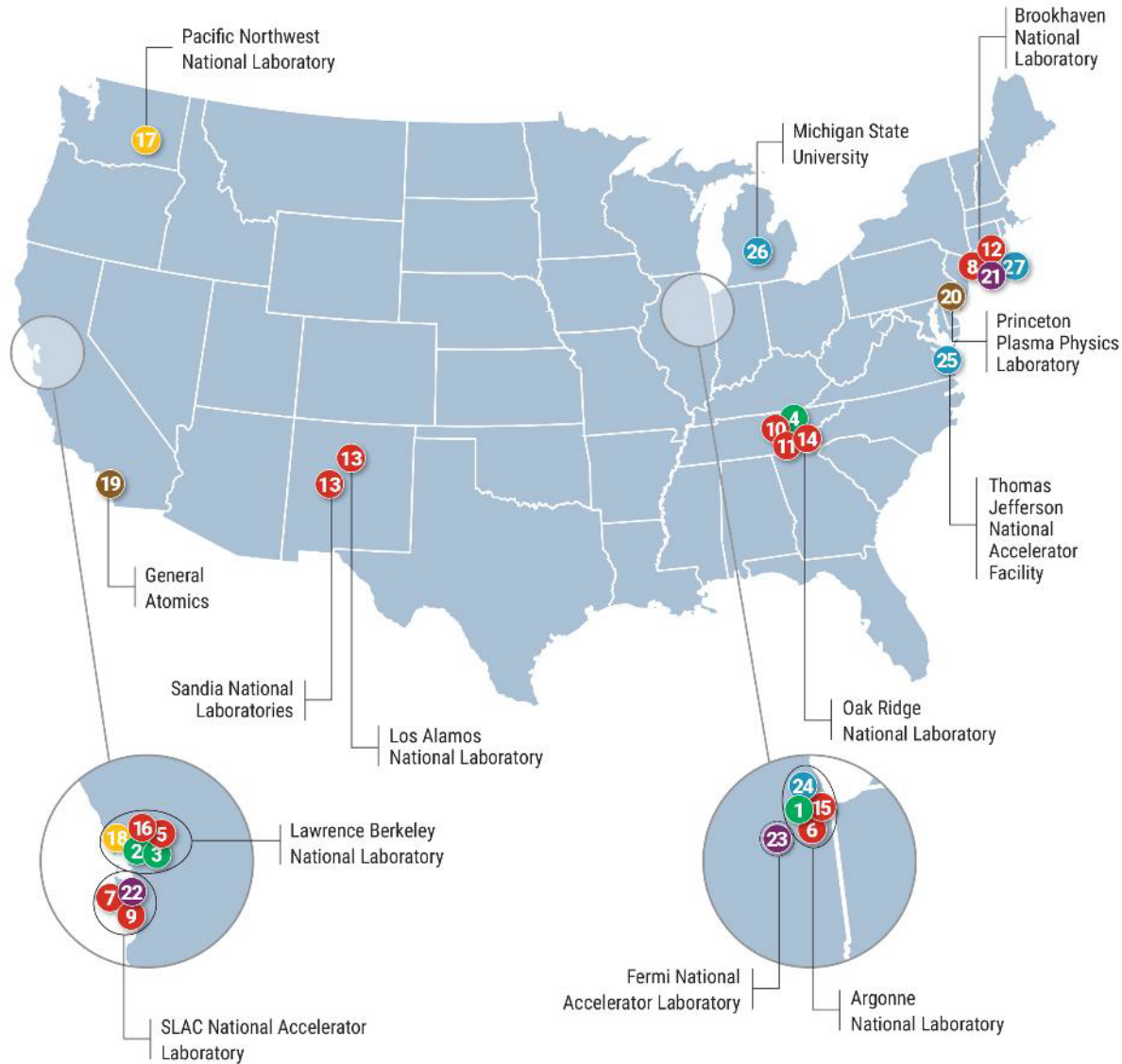
DOE Office of Science – Scientific User Facilities

FY 2023
28 scientific
user facilities
~34,000 users



U.S. Department of Energy

Office of Science User Facilities



Advanced Scientific Computing Research (ASCR)

- 1 Argonne Leadership Computing Facility (ALCF)
Argonne National Laboratory
- 2 Energy Sciences Network (ESnet)
Lawrence Berkeley National Laboratory
- 3 National Energy Research Scientific Computing Center (NERSC)
Lawrence Berkeley National Laboratory
- 4 Oak Ridge Leadership Computing Facility (OLCF)
Oak Ridge National Laboratory

Basic Energy Sciences (BES)

LIGHT SOURCES

- 5 Advanced Light Source (ALS)
Lawrence Berkeley National Laboratory
- 6 Advanced Photon Source (APS)
Argonne National Laboratory
- 7 Linac Coherent Light Source (LCLS)
SLAC National Accelerator Laboratory
- 8 National Synchrotron Light Source II (NSLS-II)
Brookhaven National Laboratory
- 9 Stanford Synchrotron Radiation Lightsource (SSRL)
SLAC National Accelerator Laboratory

NEUTRON SOURCES

- 10 High Flux Isotope Reactor (HFIR)
Oak Ridge National Laboratory
- 11 Spallation Neutron Source (SNS)
Oak Ridge National Laboratory

NANOSCALE SCIENCE RESEARCH CENTERS

- 12 Center for Functional Nanomaterials (CFN)
Brookhaven National Laboratory
- 13 Center for Integrated Nanotechnologies (CINT)
Sandia National Laboratories and Los Alamos National Laboratory
- 14 Center for Nanophase Materials Sciences (CNMS)
Oak Ridge National Laboratory
- 15 Center for Nanoscale Materials (CNM)
Argonne National Laboratory
- 16 The Molecular Foundry (TMF)
Lawrence Berkeley National Laboratory

Biological and Environmental Research (BER)

- Atmospheric Radiation Measurement (ARM) User Facility
Multi-Site Global Network
- 17 Environmental Molecular Sciences Laboratory (EMSL)
Pacific Northwest National Laboratory
- 18 Joint Genome Institute (JGI)
Lawrence Berkeley National Laboratory

Fusion Energy Sciences (FES)

- 19 DIII-D National Fusion Facility
General Atomics
- 20 National Spherical Torus Experiment Upgrade (NSTX-U)
Princeton Plasma Physics Laboratory

High Energy Physics (HEP)

- 21 Accelerator Test Facility (ATF)
Brookhaven National Laboratory
- 22 Facility for Advanced Accelerator Experimental Tests (FACET)
SLAC National Accelerator Laboratory
- 23 Fermilab Accelerator Complex
Fermi National Accelerator Laboratory

Nuclear Physics (NP)

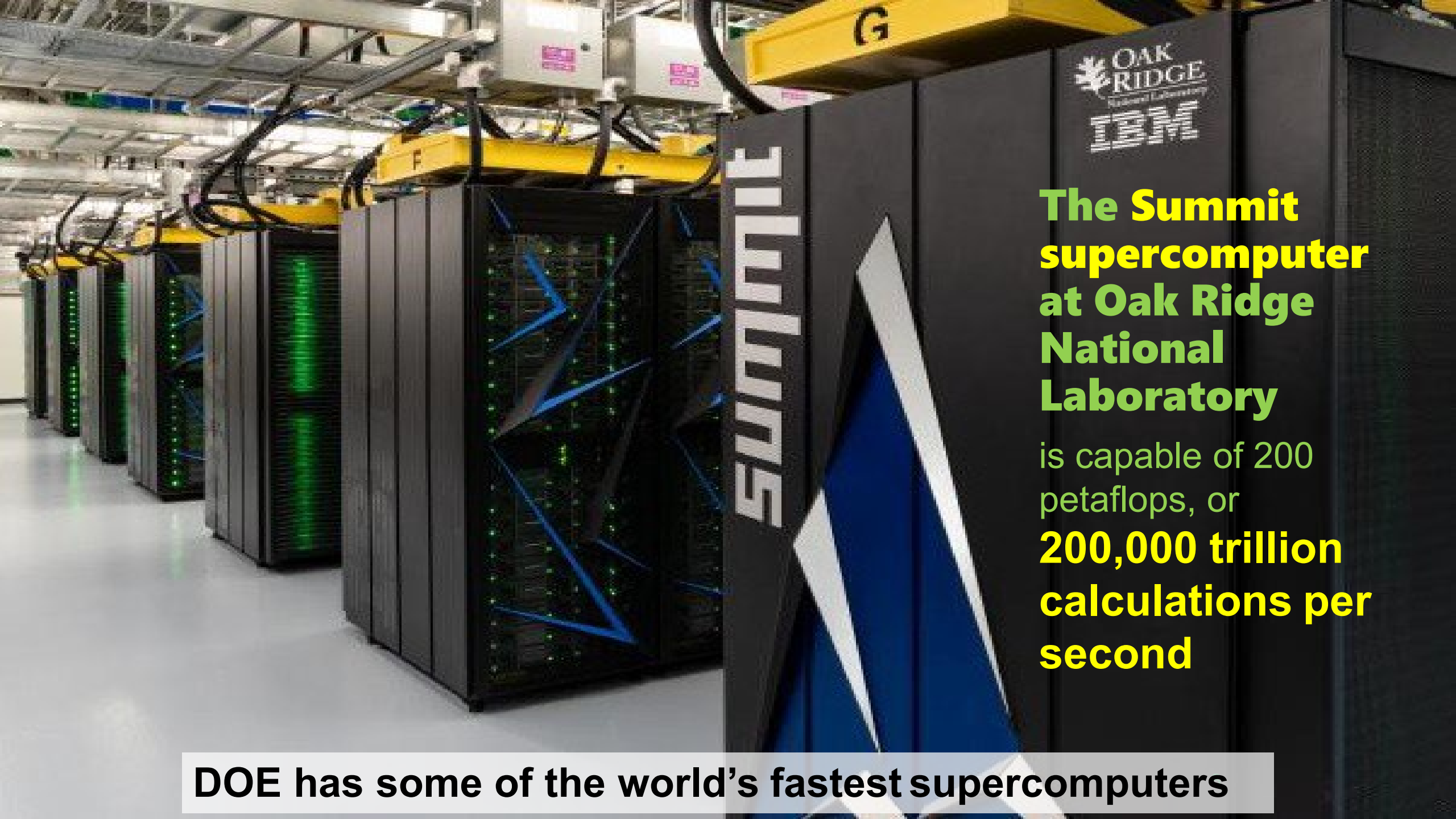
- 24 Argonne Tandem Linac Accelerator System (ATLAS)
Argonne National Laboratory
- 25 Continuous Electron Beam Accelerator Facility (CEBAF)
Thomas Jefferson National Accelerator Facility
- 26 Facility for Rare Isotope Beams (FRIB)
Michigan State University
- 27 Relativistic Heavy Ion Collider (RHIC)
Brookhaven National Laboratory

The Office of Science Research Portfolio

<https://science.osti.gov/Programs/>

Advanced Scientific Computing Research	• Delivering world leading computational and networking capabilities to extend the frontiers of science and technology
Basic Energy Sciences	• Understanding, predicting, and ultimately controlling matter and energy flow at the electronic, atomic, and molecular levels
Biological and Environmental Research	• Understanding complex biological, earth, and environmental systems
Fusion Energy Sciences	• Building the scientific foundations for a fusion energy source
High Energy Physics	• Understanding how the universe works at its most fundamental level
Nuclear Physics	• Discovering, exploring, and understanding all forms of nuclear matter
Isotope R&D and Production	• Supporting National Preparedness for isotope production and distribution during national crisis
Accelerator R&D and Production	• Supporting new technologies for use in SC's scientific facilities and in commercial products





**The Summit
supercomputer
at Oak Ridge
National
Laboratory**

is capable of 200
petaflops, or
**200,000 trillion
calculations per
second**

DOE has some of the world's fastest supercomputers

THE WORLD'S FASTEST SUPERCOMPUTER BREAKS AN AI RECORD



The Summit supercomputer used climate models with **100 years of 3-hour weather forecasts** to study climate change and improve weather and storm prediction.

https://youtu.be/etVzy1z_Ptg



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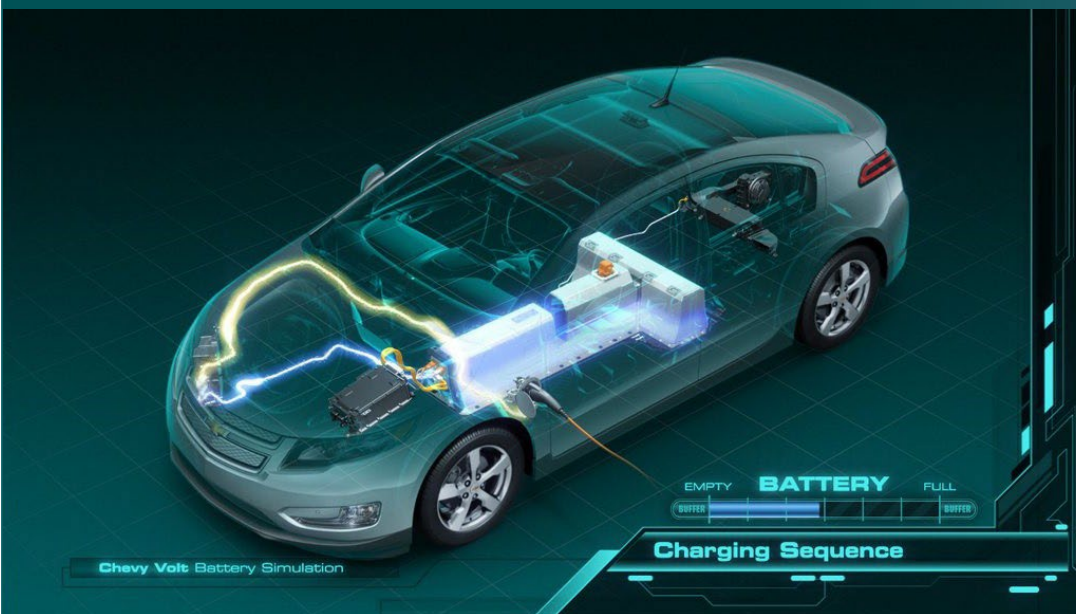
Office of
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Advanced Photon Source



**Generates ultra-bright x-ray beams
used for research in almost all scientific disciplines**



The chemistry used in the
Chevy Volt battery
was developed through X-ray experiments at
the Advanced Photon Source



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The Periodic Table of Elements is larger as a result of the contributions at the DOE national labs..

- ▲ The most recent discovery was Element 117 which was named “tennessine” (Ts) in recognition of the team of scientists at ORNL and other institutions who worked on the research. It’s the second-heaviest known element on Earth, and though its use is limited to research, scientists believe it is a critical stepping stone toward the creation of future superheavy elements.

Introduction to the Workforce Development for Teachers and Scientists (WDTS) Programs



Why does the Office of Science Sponsor Workforce Development Programs?

- ▶ Generate new and innovate ideas.
- ▶ Encourage collaborations between to the DOE national laboratories and colleges/universities.
- ▶ Develop a diverse and skilled talent pool of technicians, scientists, engineers, and technologists.
- ▶ Sustain the DOE's technical and scientific workforce.

Workforce Development for Teachers and Scientists (WDTS)

The Office of Science is deeply committed to:



Building STEM competence and accelerating growth through equitable opportunities



Diversifying the STEM pipeline via multiple pathways



Be a productive partner for mission-driven workforce development

science.osti.gov/WDTS



Community College Internships (CCI)



Prepare for technical careers and/or pursue 4-year degrees through authentic research experiences.



Hands-on research, discovery learning, and professional development guided by mentors.



Open to current community college student; Stipend of \$650/week + round trip travel to host laboratory + lodging allowance



Fall, Spring, Summer Terms

CCI website: <https://science.osti.gov/wdts/ccli>



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Science Undergraduate Laboratory Internships (SULI)



Prepare for STEM careers through authentic research experiences



Hands-on research, discovery learning, and professional development guided by mentors



Open to undergraduate students and recent graduates; Stipend of \$650/week + round trip travel to host laboratory + lodging allowance



Fall, Spring, Summer Terms



Credit: Lawrence Berkeley National Laboratory

CCI and SULI: Eligibility Requirements

- ▲ **Citizenship**-Must be a United States Citizen or Lawful Permanent Resident at the time of applying.
- ▲ **Age**-Must be 18 years or older at the time the internship begins.
- ▲ **Academic Status**-Must be currently enrolled as a full-time student at an accredited two-year or four-year college and completed at least one semester at the time of applying. Note: Recent graduates who have received their associate or bachelor degree within 2-years of starting their internship are eligible to apply to SULI.
- ▲ **High School Diploma or GED**- Must have earned a high school diploma or General Educational Development (GED) equivalent at the time of applying.
- ▲ **Grade Point Average (GPA)**-Must have an undergraduate cumulative minimum Grade Point Average (GPA) of 3.0 on a 4.0 scale for all completed courses taken as a matriculated student at the applicant's current (or recently-graduated) institution and at any undergraduate institutions attended as a matriculated postsecondary student during the 5 years preceding the start of the current enrollment. College courses completed during high school are not required to be reported.
- ▲ **Coursework**-Must have completed at least 6 credit hours in science, mathematics, engineering, or technology course areas, and completed at least 12 credits hours towards a degree.

CCI and SULI: Application Components

▲ Responses to application questions

- Personal Information
- Academic Affiliation
- Awards/Honors
- Work Experience
- Laboratory Preference

APPLY NOW

▲ Essays (Personal Interest, Research Interest, Professional Interest)

▲ Transcripts: Must submit transcripts from all universities/colleges attended in 5 years prior to enrollment at current institution.

▲ Two recommendation letters

Visiting Faculty Program (VFP)



Enhance research competitiveness and strengthen STEM teaching



Research collaboration with and access to facilities/resources at DOE national laboratories



Offers Two Tracks: (1) Research Track and (2) Teaching Initiative Track.



Application Periods:
*Fall, *Spring, and Summer Terms
* indicates prior participation in VFP required



VFP: Eligibility Requirements

▲ Eligibility for Academic Institutions:

- School must not have Carnegie Classification of Doctoral/Research Universities ratings of Very High or High Research Activity. All HBCUs are eligible.

▲ Eligibility for Faculty:

- U.S. citizens or lawful permanent residents at time of application
- Must work full time at an accredited, degree-granting, postsecondary U.S. institution (including community colleges). Adjunct or visiting faculty are ineligible
- Must work in a STEM field

VFP Application Process

- Identify potential collaborator at a host DOE national laboratory
- Develop a 6-page proposal with potential collaborator at the DOE national laboratory. Note: Format for proposal is listed on the VFP website.
- Responses to application questions.
 - Curriculum Vitae for Applicant and Co-PI at the DOE laboratory
- Two Recommendation Letters
- Considering the VFP Teaching Initiative Track? In addition to the items above, a 1-page teaching statement is required.

Key Dates

SULI/CCI/VFP Application Activity	Term: Summer 2024
On-line Application Opens	October 17, 2023
Applications including recommendations due	January 9, 2024 5:00 PM EDT
Offer Notification Period Begins on or around	January 31, 2024
All DOE Offers and Notifications Complete	On or around April 10, 2024

*****The Application System closes at 5:00 PM Eastern Daylight Time. Materials will not be accepted after the system has closed.**

Tips for Successfully Applying to WDTS Programs

- ▲ Verify you meet the eligibility requirements.
- ▲ Plan early. Submit your application ahead of the deadline!
- ▲ Make sure all the fields in the application have a response.
- ▲ Notify letter writers for recommendations of your intent to apply to the program early and inform them that the letter must be submitted through the application portal. Letters are not accepted by e-mail.
- ▲ Transcripts are required to be submitted for all universities/colleges attended after high school and within 5-years of enrollment at current institution.
- ▲ Visit the website to learn about the program and review available resources.
- ▲ Ask questions! We're available to assist you. 😊

Join Us for An Application Assistance Workshop!!

U.S. DEPARTMENT OF **ENERGY** | Office of Science

Apply today & change your life!
We can help!

Want to make a difference?

LEARN, ENGAGE, GROW

Become a Lab Intern at a
Department of Energy National Lab

**INTERNSHIP
WORKSHOP**

**SULI and CCI
Informational Workshop**

Register Here

April 24, 2022
3:00 – 4:00 pm Eastern

<https://science.psti.gov/wdts>

Science Undergraduate Laboratory Internships (SULI) and Community College Internships (CCI)

Join this workshop to learn about research opportunities, paid lab internships, technical trainings, and other DOE opportunities from DOE Program Managers. Join us for an interactive Workshop where you can engage and learn more about our SULI and CCI Programs and find out if Lab life is for you!

SULI and CCI
Application Deadline
May 25, 2023 at 5:00 PM EDT

Join a Lab & Make a Difference

► Next Workshop

► **Alumni Panel Discussion-September 6, 2023, at 2:00 pm (EDT)**

► Register [here](#). More info available on CCI/SULI website.

► Offered each application cycle.

► Workshops for the Summer Term will be announced mid-October 2023 on WDTS website.

Join us for the Summer Internship Fair on November 8, 2023.



 U.S. DEPARTMENT OF
ENERGY | Office of
Science

 **WDTs**
WORKFORCE DEVELOPMENT
FOR TEACHERS & SCIENTISTS

Summer INTERNSHIP FAIR

**Find your place
for the 2024
Summer Term!**

*U.S. Department of Energy
Laboratory Internships:*

[Community College Internships \(CCI\)](#)

[Science Undergraduate Laboratory
Internships \(SULI\)](#)

*These stipend-based 10-week
programs provide technical
training and research
opportunities at DOE national
laboratories and facilities.*

*Learn more
about our labs!*



Register Today!

November 8
1:00 - 5:00 pm Eastern Time
(This is a Virtual Fair)

**Are you ready to build your STEM
future? Find out if lab life is for you!**

Visit our interactive virtual booths to
engage with representatives from the 17
Department of Energy National
Laboratories!

 **OAK RIDGE INSTITUTE
FOR SCIENCE AND EDUCATION**

My Internship Experience at a Federal Laboratory



Dr. Toliver receiving her certificate of completion during her appointment as an intern at NASA's Johnson Space Center.

Connect with us.....

▶ After this session, e-mail:

- ▶ Brandi.Toliver@science.doe.gov
- ▶ sc.cci@science.doe.gov for questions about CCI
- ▶ sc.suli@science.doe.gov if you have questions about SULI.
- ▶ sc.vfp@science.doe.gov if you have questions about VFP.

▶ Connect with us on LinkedIn

- ▶ [Office of Science](#)
- ▶ [Office of Workforce Development for Teachers and Scientists \(WDTS\)](#)

▶ Follow the Department of Energy on [Twitter](#)

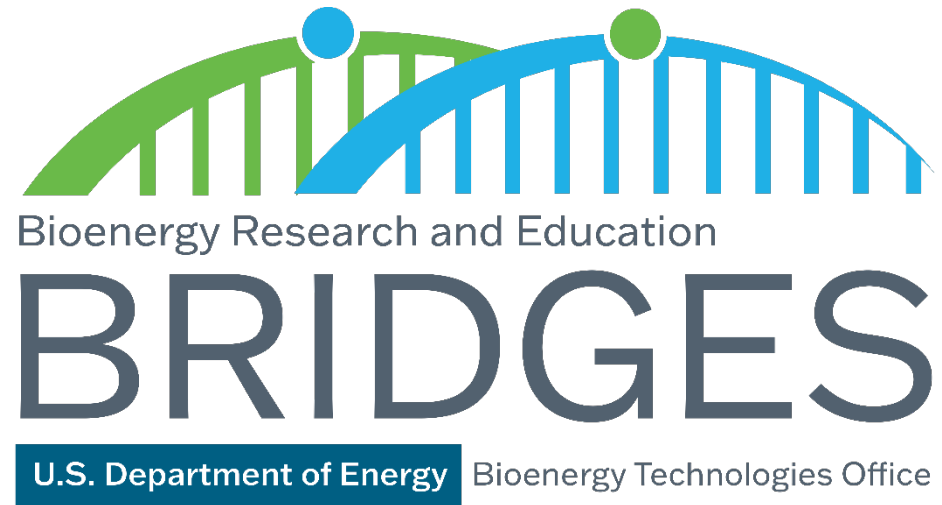
▶ Subscribe to the [YouTube](#) Channel

▶ Visit the CCI, SULI, and VFP websites

WE'D LOVE TO
Connect
WITH YOU!

Questions?

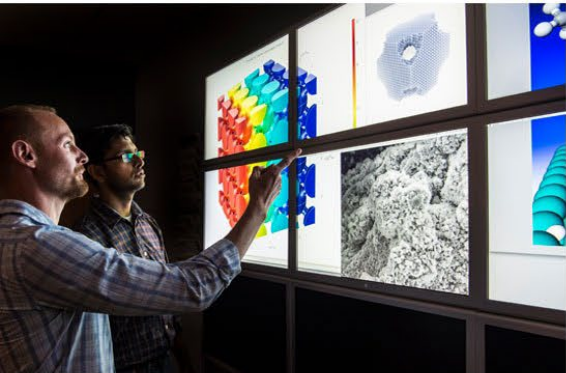


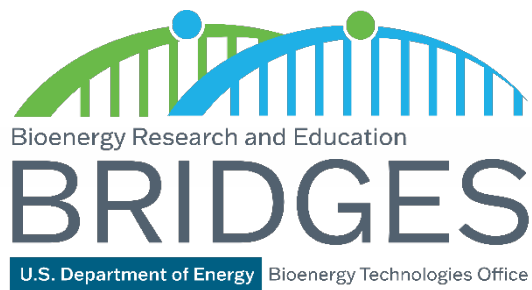


Bioenergy Research and Education BRIDGES Program

August 2023

BETO BRIDGES Team





BRIDGES Team



Sheila Dillard, Communications and Stakeholder Engagement Lead, U.S. Department of Energy Bioenergy Technologies Office

Ashley Lovett, Communications Fellow, U.S. Department of Energy Bioenergy Technologies Office

Andrew Taylor, Communications Specialist, U.S. Department of Energy Bioenergy Technologies Office / The Building People

Michelle Frederic, Sr. Communications & Stakeholder Engagement Specialist, U.S. Department of Energy Bioenergy Technologies Office / The Building People

Sara Leonard, Communications Project Lead, NREL Communications Office

Jennifer Jackson, Program Manager, STEM Education & Tribal Engagement, Idaho National Laboratory

Cait McGraw, STEM Education & Outreach Coordinator, Idaho National Laboratory

Kelly Sturner, Learning Center Program Coordinator, Argonne National Laboratory

Annemarie Duncan, Bioenergy Curriculum Writer, Argonne National Laboratory, not pictured



How was BETO BRIDGES created?

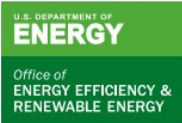
Photo by iStock

Resources for Educators to Introduce Bioenergy Topics and Prepare a National Workforce

- Bring current U.S Department of Energy scientific research to the classroom
- Create awareness of bioenergy topics and careers
- Ease the transition from academics to industry
- Provide equitable access to high-quality bioenergy learning materials.



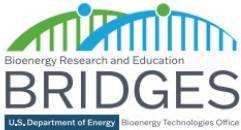
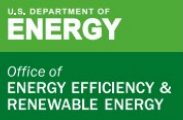
BRIDGES Student and Instructor Guides Now Available



STUDENT GUIDE

Upcycling: Could My Plastic Bag Someday Become the Sustainable Alternative?

Bioenergy Research and Education
Bridge (BRIDGES) Program



STUDENT GUIDE

Farm to Flight: Are Sustainable Aviation Fuels Good for the Environment?



STUDENT GUIDE

Solid Waste to Energy: Traditional Ecology and Environmental Justice

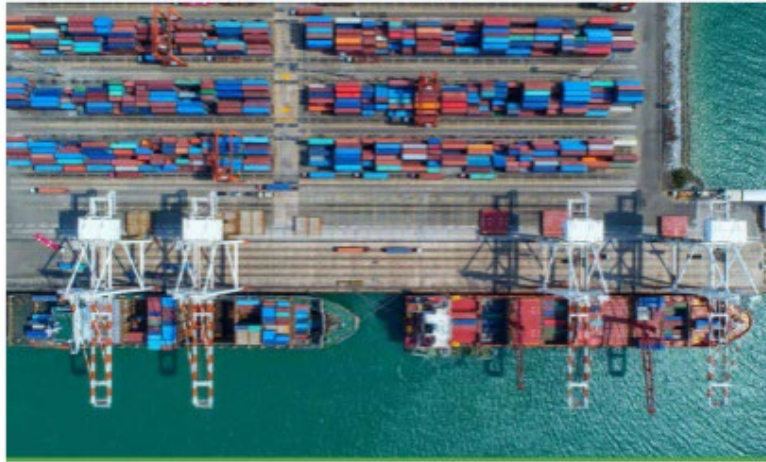
Bioenergy Research and Education
Bridge (BRIDGES) Program



STUDENT GUIDE

Regional Feedstocks: Are They the Answer to Achieving a Net-Zero Future?

Bioenergy Research and Education
Bridge (BRIDGES) Program

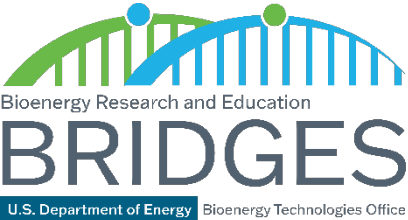
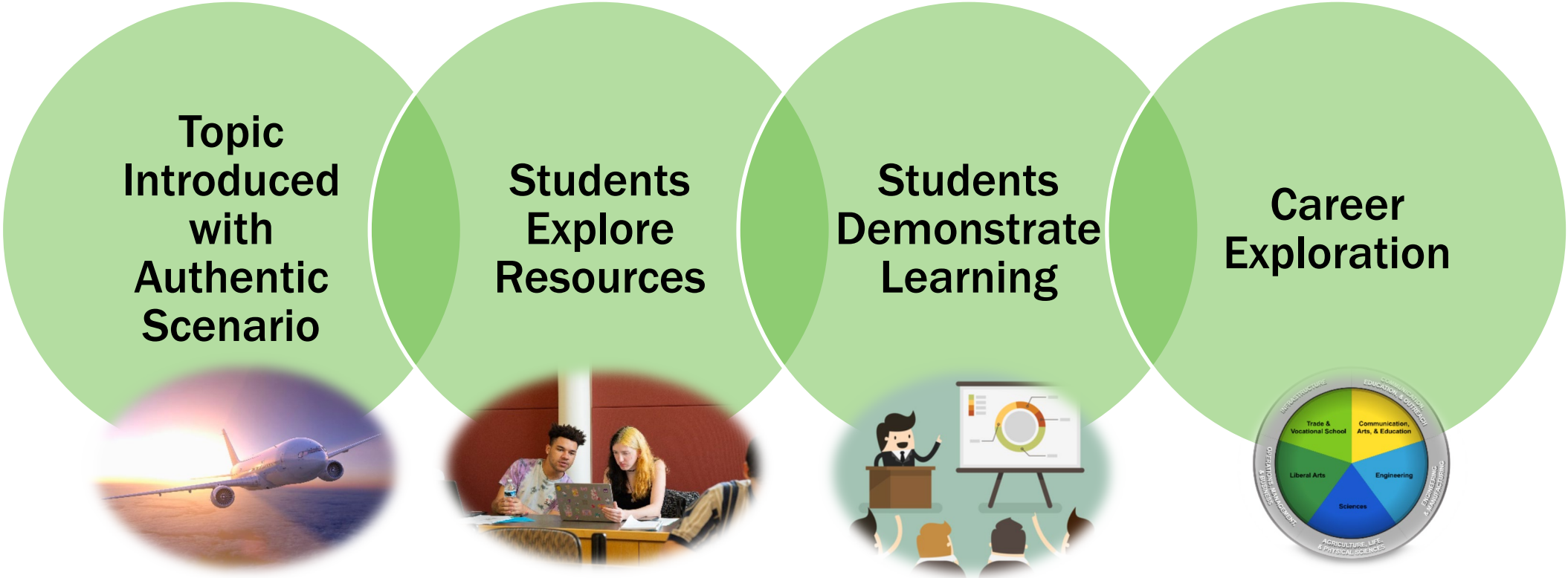


U.S. DEPARTMENT OF ENERGY | OFFICE OF ENERGY EFFICIENCY & RENEWABLE ENERGY | BIOENERGY TECHNOLOGIES OFFICE

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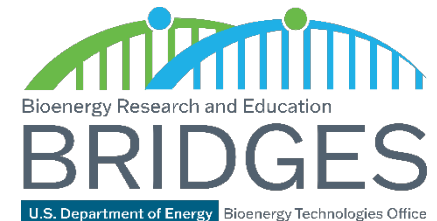
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Inside a BRIDGES Case Study ...



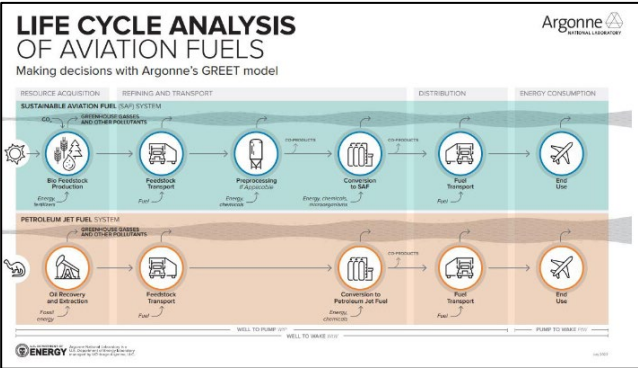
Topic Introduced with Authentic Scenario

- Students play role of a sustainability specialist
- Phone call comes in from an airline CEO saying the board of directors is concerned.
- The board requires an expert analysis ... are sustainable aviation fuels good for the environment?



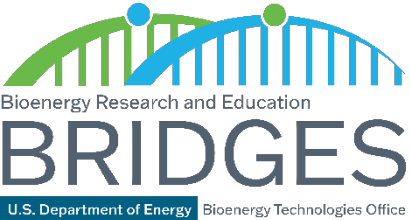
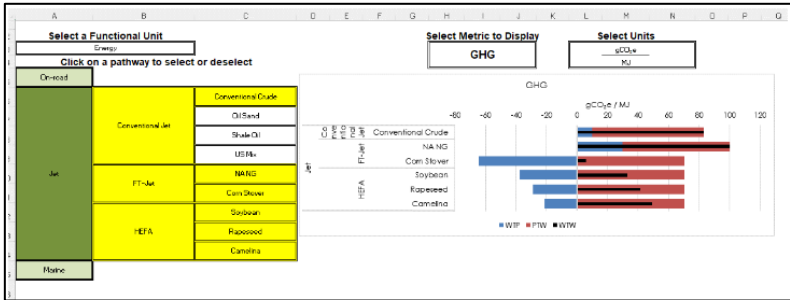
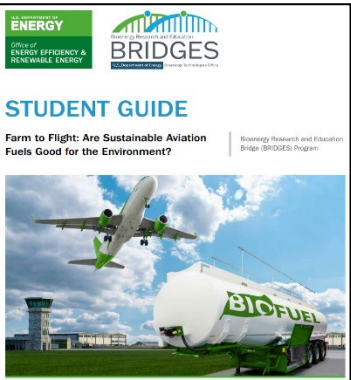
Students Explore Bioenergy Resources

- Part 1: Bioenergy and Lifecycle Analysis
 - Guide students through resources and background information



Feedstock Summary Table ¹			
	Description	State of Development	Emission Reduction Factor (ERF)
Wastes			
Municipal solid waste (MSW)	Following sorting to remove any recyclable components, typical organic MSW can be processed into SAF.	Substantial quantities of MSW exist globally that are not used for energy production, and nearly all end up in landfills. A number of MSW feedstock plants are under construction, with the first major facility close to completion.	Current ERF: 70%
Forestry waste residues		Opportunities are substantial but tend to be linked to specific regions (such as the Nordics) that have an existing timber or paper industry.	Current ERF: 70%-80%
Wood processing waste	Wood chips left over from the processing of wood into building materials.	Opportunities exist but tend to be linked to specific regions (such as the Nordics) that have an existing timber or paper industry.	Current ERF: 70%-80%
Agricultural	The cellulosic waste left over	Agricultural residues	Current ERF: 70%-80%

- Part 2: Working with a Computational Model as a Life Cycle Analyst
 - Students use GREET (Greenhouse gases, Regulated Emissions, and Energy use in Technologies)



Students Demonstrate Learning

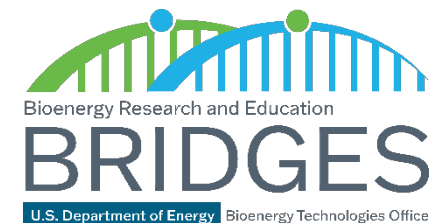
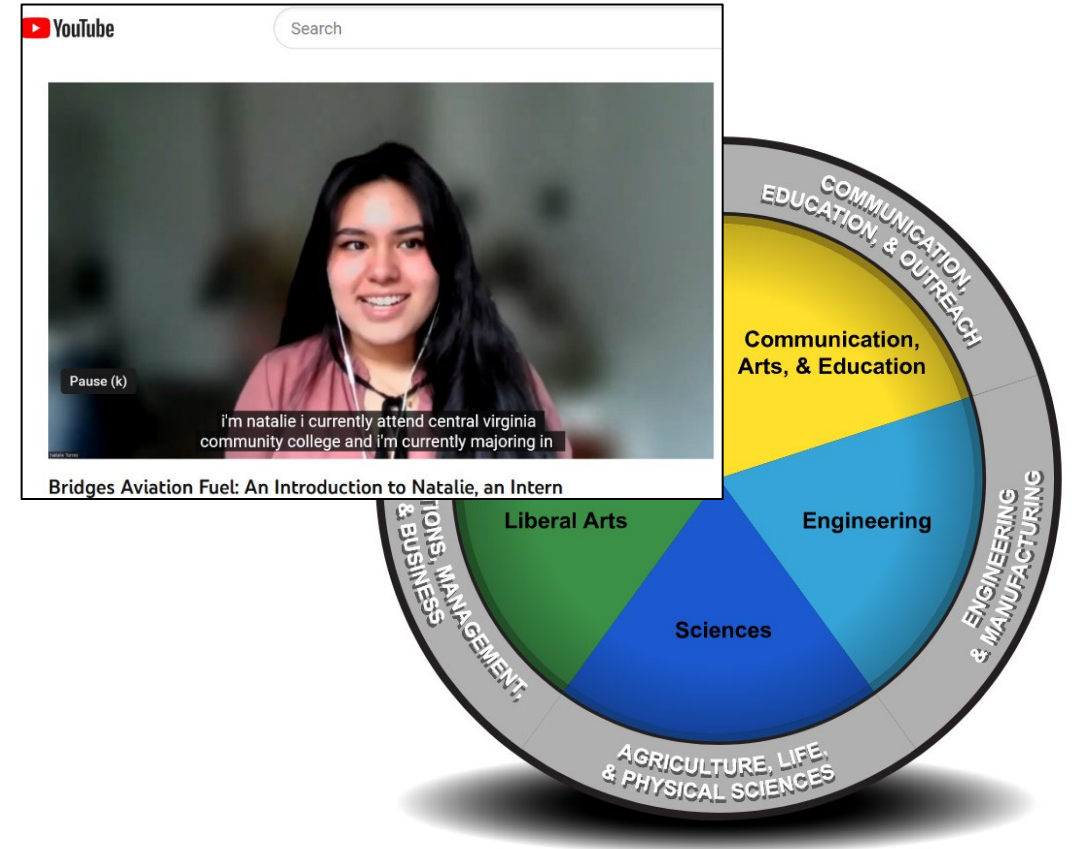
- Students develop and communicate their findings as presentations for a board of directors.
- Students demonstrate understanding of bioenergy, sustainable aviation fuels, life cycle analysis.
- Students are supported in making professional presentations that communicate technical knowledge and findings to a non-technical audience.



Students Explore Bioenergy Careers

Career Highlight: Sustainability Specialist

- Average salary
- Common majors for this position
- Responsibilities of a sustainability specialist
- Students then explore the career wheel to identify a career of interest to them



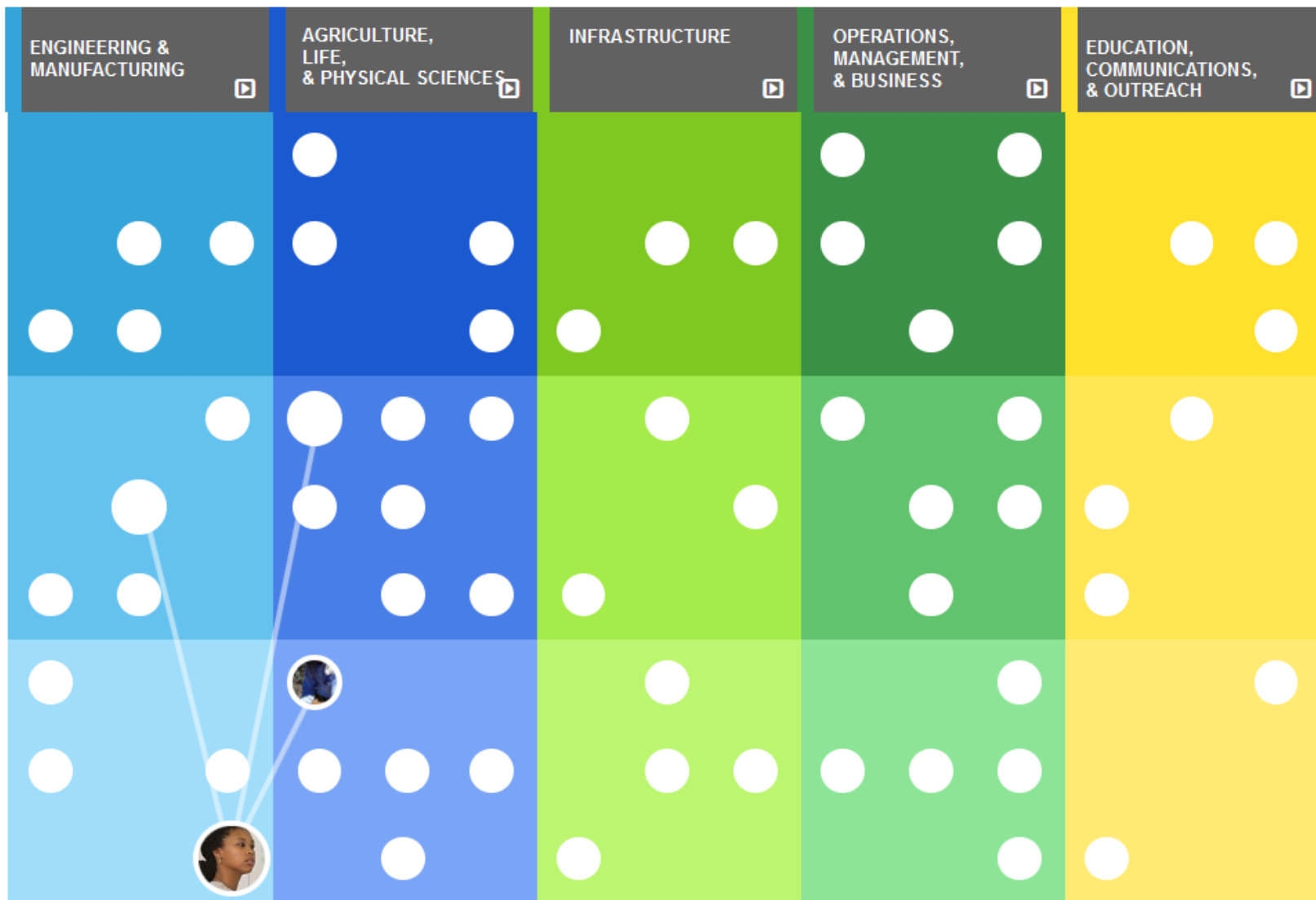
Bioenergy Industry Sub-Sectors

Career Level

ADVANCED

MID-LEVEL

ENTRY



Civil / Environmental Engineer Trainee

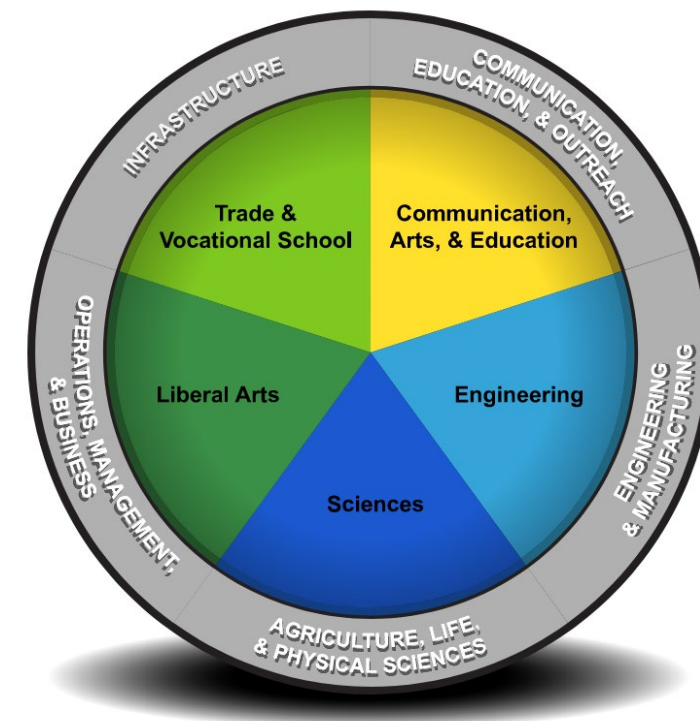
Civil engineer trainees work under the supervision of senior engineers to assist in the design and construction of biofuel processing facilities.

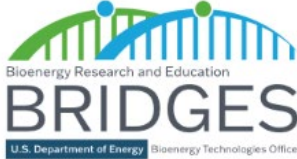
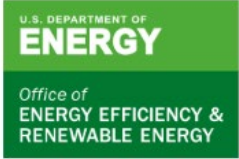
JOB DETAIL

Instructional Materials: Bioenergy Career Grid

Along the x-axis, the top are five bioenergy industry sub sectors:

Bioenergy Career Wheel





INSTRUCTOR GUIDE

**Farm to Flight: Are Sustainable Aviation
Fuels Good for the Environment?**

Bioenergy Research and Education
Bridge (BRIDGES) Program



Assumes No Bioenergy Background

- Case Study Introduction/Background
- Learning Objectives
- Prerequisite Knowledge
- Classroom Implementation Strategies
- Rubrics
- Example answers to background questions
- Additional resources



Testimonials from Students & Educators

Photo by iStock

Board Membership

- Members recruited from community colleges, primarily undergraduate universities, minority-serving institutions, government, and state or national-level K-12 educational organizations



Commitments

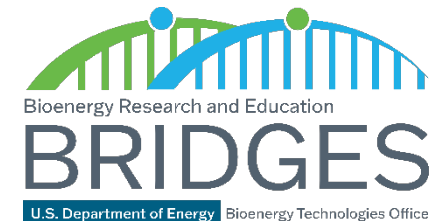
- Members committed to helping us reach out through their networks
- Members gave great feedback on networks to target and how to reach their communities
- Members also committed to helping with future case study development and testing and getting the word out about professional development opportunities.

Partnerships

BATTELLE

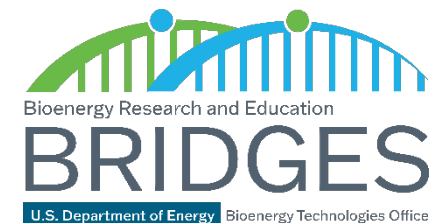
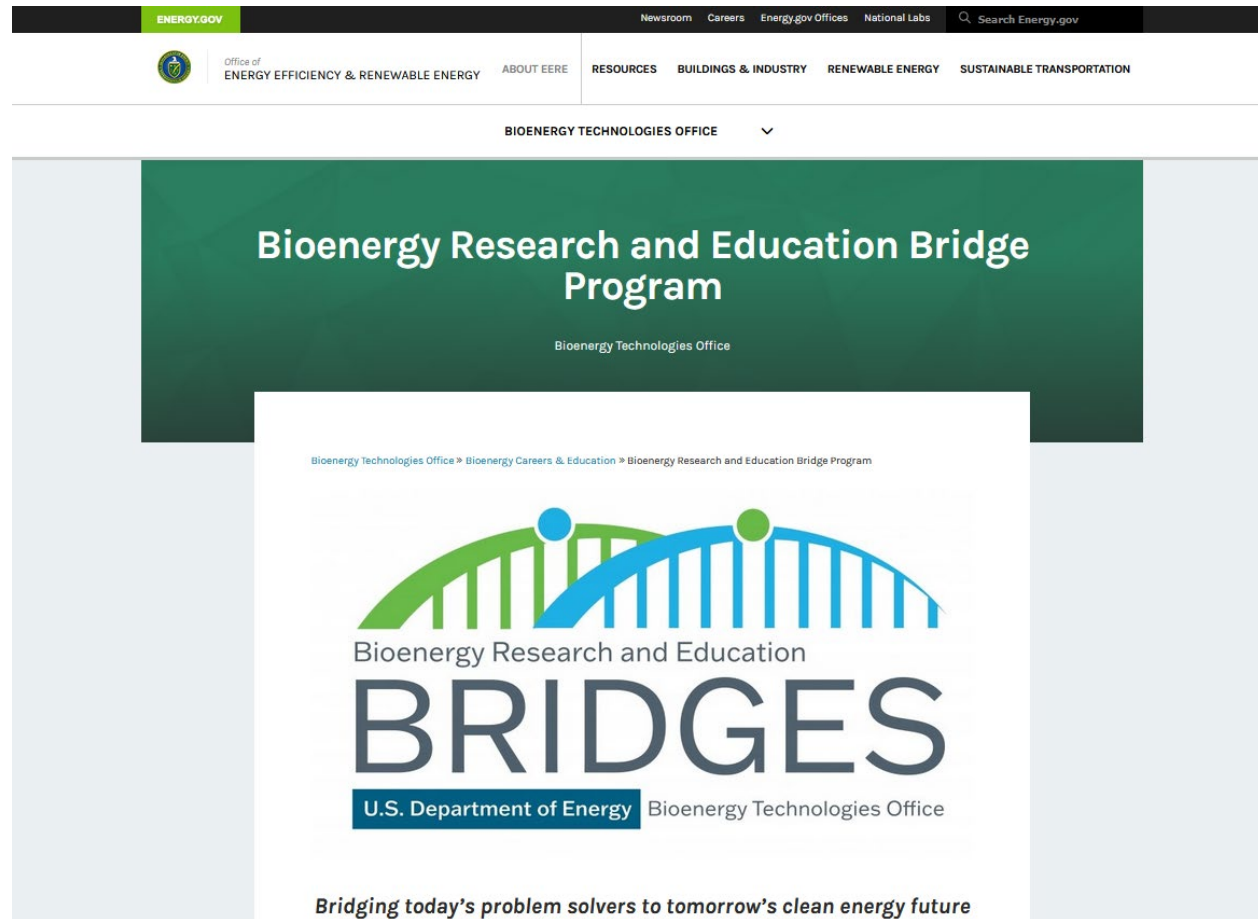


STEM^x



Demonstration of the Portal for Downloading BRIDGES Case Studies

<https://www.energy.gov/eere/bioenergy/bioenergy-research-and-education-bridge-program>

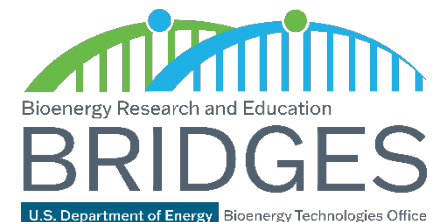


Next Steps...

**Nominate faculty from your institution to be a part of our first cohort
of BETO BRIDGES Bioenergy Certified Educators**

**Nominate a department head or chair to serve on our DOE BETO
BRIDGES National Advisory Board**

Send nominations to: Bioenergy_BRIDGES@ee.doe.gov



Upcoming Events to Support Educators in Teaching BRIDGES Case Studies

Webinars

- Webinar for Historically Black Community Colleges, August 31
- **BRIDGES Bioenergy 101 Webinar for Educators, Sept 14**
- Cross-Advertised Webinar from the Bioenergy Technologies Office & National Association of Biology Teachers, Oct 5

Office Hours

- With the National Science Foundation Advanced Technical Education (ATE Central), Sept 7
- BETO BRIDGES Biweekly Office Hours, Sept 6, Sept 21, Oct 19, Nov 2, Nov 16, Nov 30, Dec 7



Questions?



Feedstock



Algae



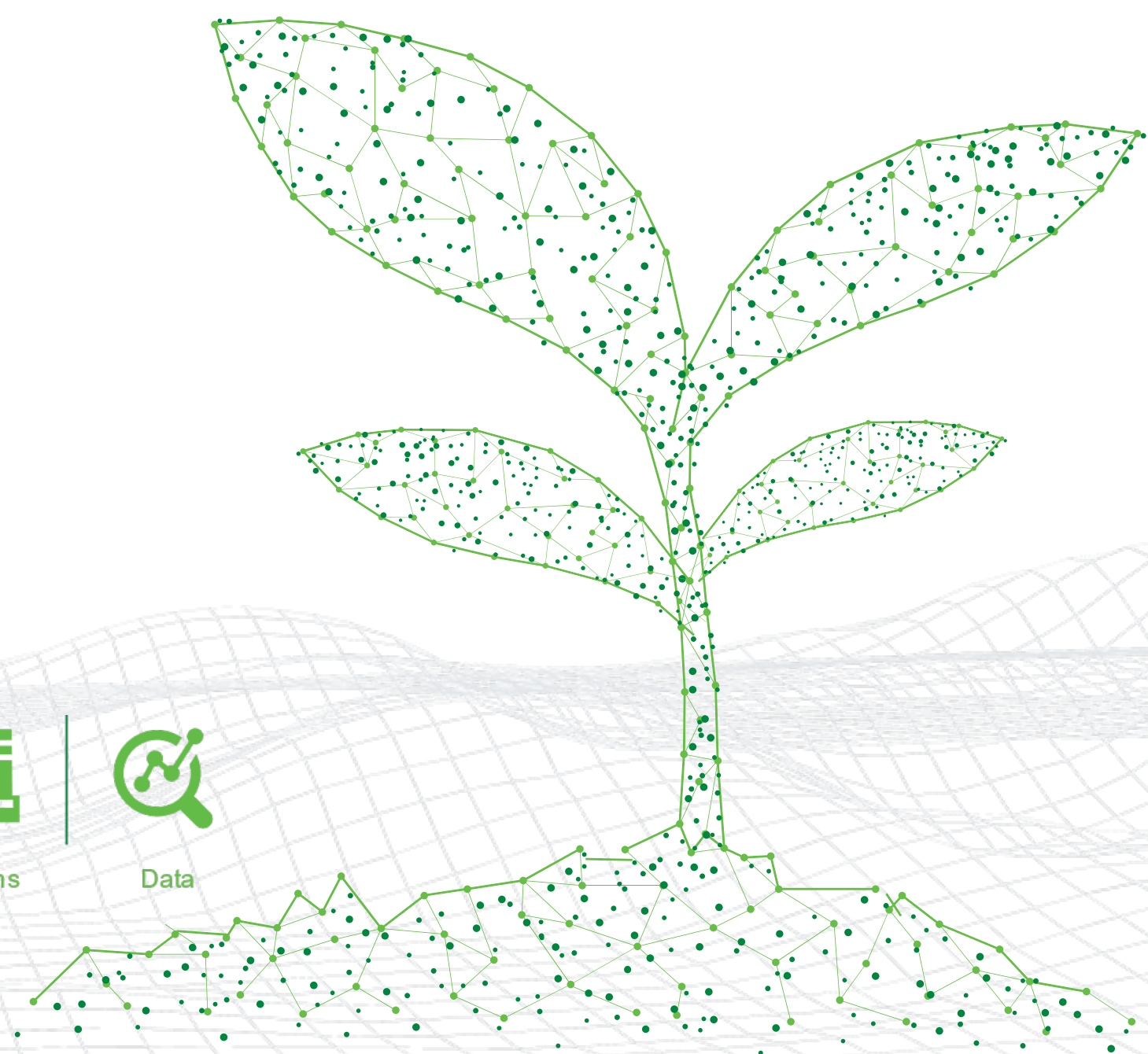
Conversion



Systems



Data



Historically Black Community Colleges Webinar

Presenters:

- Trina Bilal, Program Manager, Office of Economic Impact & Diversity, U.S. Department of Energy (DOE)
- Brandi Toliver, Program Manager, DOE Office of Science
- Sheila Dillard, Communications and Stakeholder Engagement Lead, DOE Bioenergy Technologies Office
- Jennifer Jackson, K-12 STEM Program Manager, Idaho National Laboratory
- Kelly Sturner, Learning Center Program Coordinator, Argonne National Laboratory
- Ashley Lovett, Communications Fellow, DOE Bioenergy Technologies Office



Feedstock



Algae



Conversion



Systems



Data

August 31, 2023