## Application Support Workshop: Best Practices for Applying to the Visiting Faculty Program (VFP)

Dr. Brandi Keene

VFP Program Manager | Chemist

Office of Workforce Development for Teachers and Scientists



### Breakthroughs at the DOE National Laboratories

- Advanced Supercomputing-The world's fastest supercomputer, Frontier helped researchers simulate synthesizing a material harder and tougher than a diamond or any other substance on Earth.
- Put the Jolt in Volt- Chevy's Volt would not be able to cruise on battery power were it not for the advanced cathode technology that emerged from a National Lab (specifically, Argonne National Lab).
- **Decoded DNA**-In 1990, the National Labs joined with the National Institutes of Health and other laboratories to kick off the Human Genome Project, an international collaboration to identify and map all the genes of the human genome.
- **Brought the web to the U.S.**-National Lab scientists, seeking to share particle physics information, were first to install a web server in North America, kick-starting the development of the worldwide web as we know it.
- World's First Video Game- Before there was Xbox and PlayStation, there was Tennis for Two, which may have been the first video game ever created, Brookhaven National Lab scientists built the pioneering system to entertain visitors to the Lab in 1958.
- Launched the LED lighting revolution-In the 1990s, scientists at a National Lab saw the need for energy-efficient solid-state lighting and worked with industry to develop white LEDs. Today, white LEDs are about 30 percent efficient, with the potential to reach 70 percent to 80 percent efficiency.
- 3D Printing Bigger and Better-A large-scale additive manufacturing platform developed by a National Lab and an industry partner printed 3D components 10 times larger and 200 times faster than previous processes. So far, the system has produced a 3D-printed sports car, SUV, house, excavator and aviation components.
- **Discovered 22 elements** To date the National Labs have discovered: technetium, promethium, astatine, neptunium, plutonium, americium, curium, berkelium, californium, einsteinium, fermium, mendelevium, nobelium, lawrencium, rutherfordium, dubnium, seaborgium, flerovium, moscovium, livermorium, tennessine and oganesson.
- **Noble Prizes-**There are 118 Nobel Laurates associated with U.S. Department of Energy. After receiving the Nobel Prize, 70% DOE scientists remain affiliated with the National Labs.

Additional breakthroughs are available at <a href="https://www.energy.gov/downloads/75-breakthroughs-americas-national-laboratories">https://www.energy.gov/downloads/75-breakthroughs-americas-national-laboratories</a>.





Office of

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

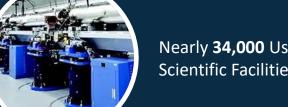
### **Office of Science Mission**

Delivery of scientific discoveries and major scientific tools to:

- (1) Transform our understanding of nature and
- (2) Advance the energy, economic, and national security of the United States.



Steward 10 of the 17 DOE National labs



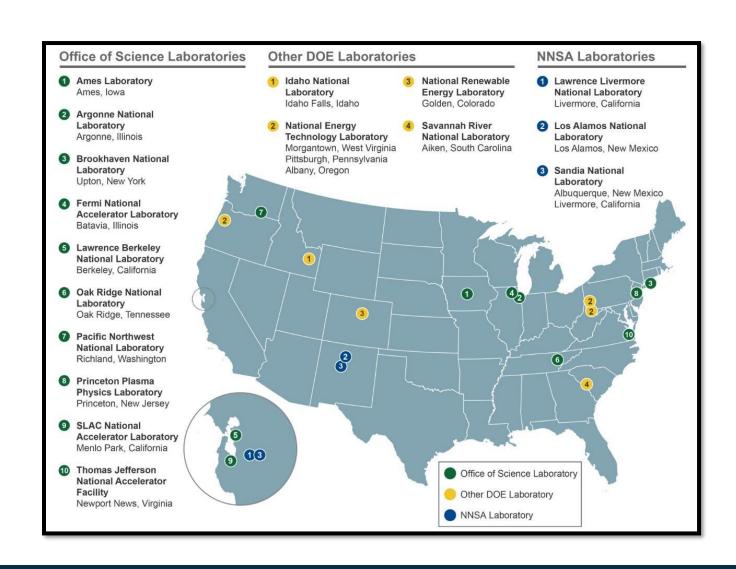
Nearly **34,000** Users of **28** SC Scientific Facilities





### **DOE National Laboratories**

- Created as a home for large-scale, costly scientific facilities that universities cannot afford.
- The 17 DOE National Laboratories provide the Nation with strategic scientific and technological capabilities.
- The Office of Science stewards 10
   DOE laboratories that provide
   essential support to the missions of
   the SC science programs.
- VFP is hosted on-site at the host DOE National Laboratory.



### **DOE Office of Science – Scientific User Facilities**

- The DOE's Office of Science maintains and operates 28 user facilities at DOE national laboratories across the country.
- The user facilities include advanced supercomputers, particle accelerators, large x-ray light sources, neutron scattering sources, specialized facilities for nanoscience and genomics.
- The user facilities are shared resources available for faculty and students to use. Access is available on competitive basis using peer review.



## The Office of Science Research Portfolio <a href="https://science.osti.gov/Programs/">https://science.osti.gov/Programs/</a>

### 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

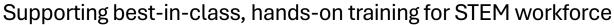
• Supporting National Preparedness for isotope production and distribution during national crisis

#### **Accelerator R&D and Production**

 Supporting new technologies for use in SC's scientific facilities and in commercial products

# Office of Workforce Development for Teachers and Scientists (WDTS)

Mission: Sustaining a highly skilled STEM talent pool for a strong future DOE workforce





**Community College Internship** (CCI): dedicated to students at community colleges (summer, spring, and fall terms).

**Science Undergraduate Laboratory Internship** (SULI): Students at 2-/4-year academic institutions and recent graduates (summer, spring, and fall terms).

Office of Science Graduate Student Research Program (SCGSR): Doctoral candidates spend 3-12 months conducting their graduate thesis research SC mission priority areas at DOE labs (2 solicitations per year).

**Visiting Faculty Program** (VFP): Open to faculty members from emerging research institutions in STEM research, including all HBCUs. (*limited to the summer term*).

# About the Visiting Faculty Program (VFP)

- Enhances research competitiveness and STEM teaching through a collaboration with DOE national laboratory scientists.
- Open to <u>full-time</u> faculty members from U.S. degree-granting colleges, universities, and community colleges with limited STEM research infrastructure, including all HBCUs.
- Faculty may invite 2 students to join them for the summer term.
- \$1600/week stipend, travel and housing support.

**Currently, accepting applications** for the Summer 2026 term.

Learn more, apply at:





### VFP Faculty Eligibility Requirements

- Citizenship-Must be a United States Citizen or Lawful Permanent Resident at the time of applying.
- **Faculty Appointment-**Must be a full-time faculty member at an accredited U.S. degree granting, postsecondary institution of higher education historically underrepresented in the U.S. research community. This includes 2-year and 4-years institutions of higher education. Note: Adjunct and visiting faculty are not eligible for VFP.
- Institution Research Activity Designation: The applicant cannot be a faculty member at an institution categorized as "Research 1: Very High Research Spending and Doctorate Production" or "Research 2: High Research Spending and Doctorate Production" as reported in the 2025 <a href="Carnegie Classification for Institutions of Higher Education">Carnegie Classification for Institutions of Higher Education</a>. Note: Full-time faculty members at Historically Black Colleges/Universities (HBCU's) are eligible to apply regardless of research activity designation.
- **Disciplines Recommendation:** Must be a full-time faculty member in an area (but may not be limited to) of physics, chemistry, biology (non-medical), engineering, environmental sciences, geology or geosciences, mathematics, materials sciences, or computer or computational sciences.
- **Previous Appointment Requirement :** For faculty applying to the <u>VFP Teaching Initiative Track</u>, you are required to have previously participated in VFP or FaST.
- Participation and Application Limit: Faculty are limited to participation in VFP for five appointments.
   Additionally, faculty can apply to VFP a maximum of five times.

Before applying, verify you meet the "all" eligibility requirements.





**Prior to applying**, eligible faculty are strongly encouraged to contact scientific or engineering staff at the DOE National Laboratory best aligned with their research interests.

In you need assistance, <u>VFP Lab Contacts</u> are available to help you.

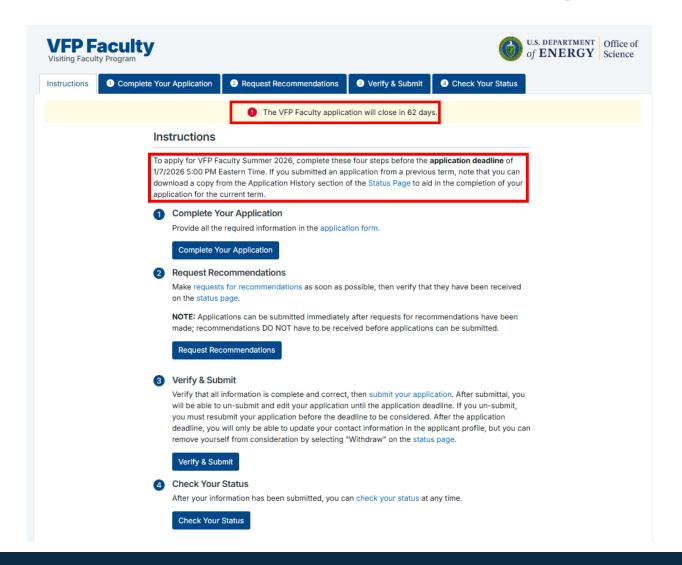
### **Application Requirements**



- All applications (faculty and student) must be completed online through the <u>online application system</u>. You will need to create an account to access the online application system.
- Only complete applications submitted by the deadline will be considered for evaluation and placement. As a reminder, letters of recommendations are a component of a completed application.
- The application system is compatible with mobile-friendly devices including smartphones.

The application materials must be uploaded and received through the online application system will provide the sole basis for evaluation and selection.

### VFP Faculty Application Homepage



### Components of VFP Faculty Application

- Applicant Profile
- Professional Background
- Program Information
- Research Project
- Letters of Recommendation
- Inviting Students

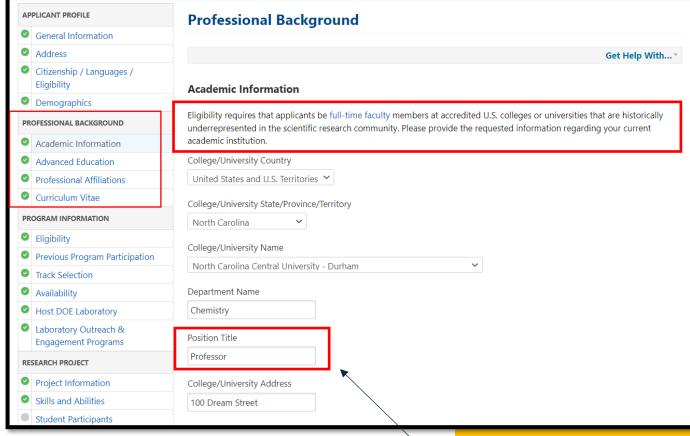


ANI

https://www.anl.gov/education/department-of-energy-visiting-faculty-program
Accessed 1/9/2019

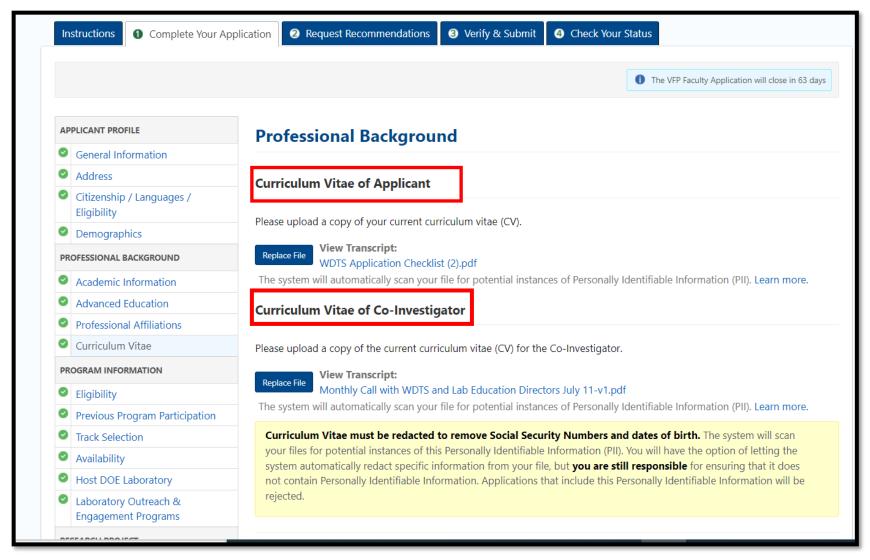
## Professional Background

# Professional Background: Indicate Academic Information



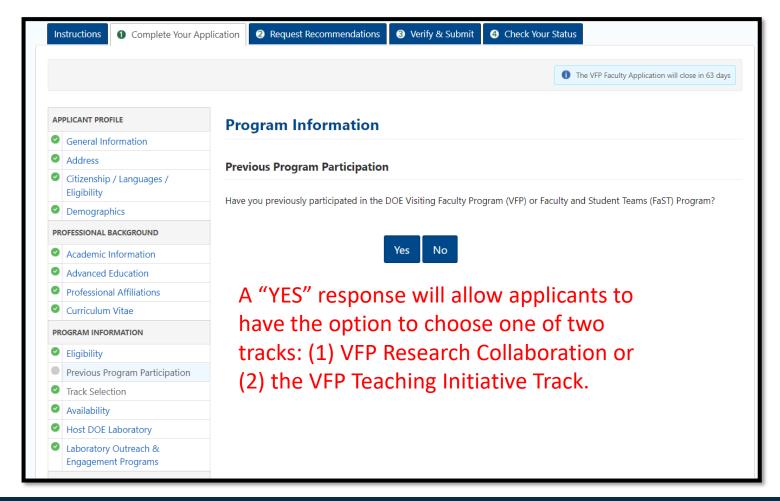
Eligibility is limited to full-time faculty as defined by the Internal Revenue Service.

Professional Background: Uploading Curriculum Vita's (CV)

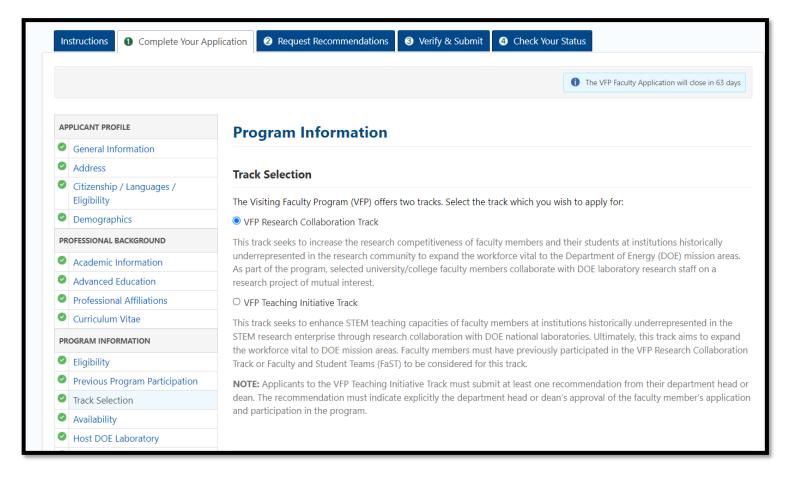


## **Program Information**

# Program Information: Previous Program Participation



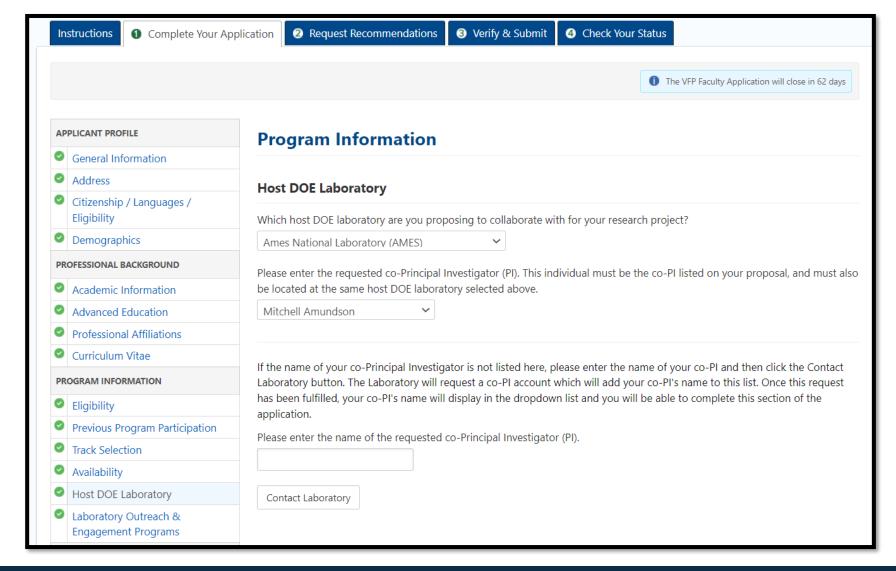
### **Program Information: Track Preference**



Note: First-time applicants must apply to the VFP Research Collaboration Track.



### **Program Info: Host DOE Lab Preference**



### Tips for Selecting a Host Lab

- Learn about the research happening at the DOE national labs and identify topics which align with your interests.
  - Refer to the <u>WDTS website</u> for more details to assist with selecting a host national laboratory.
  - Read scientific literature. Check authors affiliations of the literature you read for potential research collaboration.
  - Conduct searches in ISI Web of Science, SciFinder, Google Topic..-search by topic –refine by institution.
- After a research topic is identified which aligns with the DOE mission, <u>contact the laboratory</u> to inform them of your desire to collaborate with a DOE scientist through VFP.

## Research Project

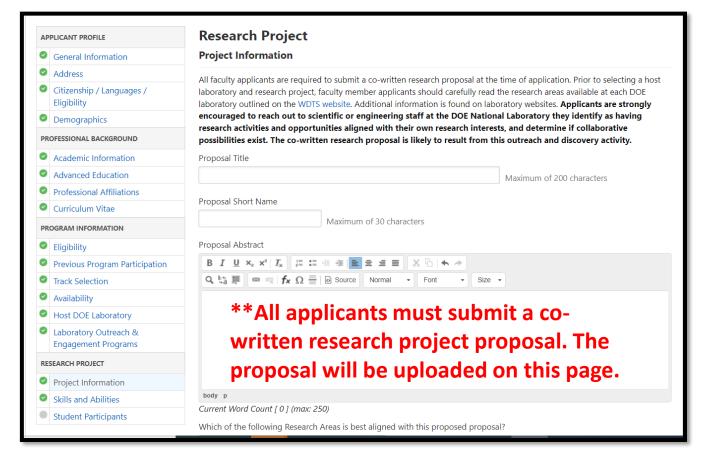
### Research Project: Proposal Format

Element	Requirement
File type	Adobe Acrobat PDF document with ".pdf" extension after filename
Page margins	One-inch margins on all sides
Font size	12 point
Font type	Times or Times Roman; use symbolic font for math notation
Text spacing	Single spacing
Page headers and footers	Left-side header: Your proposal title Left-side footer: The faculty applicant's name Right-side footer: Page numbers
Figures	Proposals may contain embedded figures, but the entire proposal should be legible when printed in black and white; color figures that are not clear or understandable in black and white should be avoided. Figures must fit within the stated page limit.
Page limit	7 pages including cover page (cover page)

## Research Proposal Guidance for VFP Research Collaboration Track

- Prepare a proposal with the following elements:
  - Cover page which includes (one-page limit)
    - Proposal title and abstract
    - Experimental Team
    - Scientific facilities
  - Proposal Body which includes (six-page limit)
    - **Background:** Define the context for the proposal by relating it to other work, at the host laboratory and elsewhere, including any preliminary studies. Explain how the proposal is innovative and advances the state-of-the-art in the field.
    - **Hypotheses and research objectives and goals**: Concisely define your research goals and describe how accomplishment of the research goals would help to validate the hypothesis and bridge one or more gaps in the knowledge.
    - **Key deliverables:** List the key deliverable(s) you expect to accomplish and scientific and technical impact.
    - References cited: Not a part of the six-page limit.

# Research Project: Project Proposal Details in Application Portal



# Faculty Applicants: Letters of Recommendation



### **Letters of Recommendations**

- A completed application requires recommendations from two individuals familiar with the applicant's academic background, training, experience, abilities, or potential relevant to the VFP.
- An applicant will be asked to provide contact information for individuals indicated in the online application system. Applicants are encouraged to make the requests for recommendations as soon as possible.
- Qualified Recommenders: Recommendations are not permitted from family members, friends, or friends of family members. Please choose professional references who can objectively assess the applicant's capabilities.
- **Reminder:** Applicants to the VFP Teaching Experiencing Track must submit at least one recommendation from their department head or dean.
- Letters of reference must be submitted through the application portal by the application deadline (i.e. 5:00 p.m. Eastern Time on January 7, 2026 for the Summer 2026 term).

### **Selection and Notification**

- Eligibility and Compliance Check-All applications must pass eligibility and compliance check.
- Merit Review- Assessment by first and second choice labs selected by the applicant.
  - Applications will be assessed based upon <u>research proposal</u>, <u>research, training</u>, <u>and experience in STEM</u>, <u>the applicant's background</u>, <u>experience</u>, <u>accomplishments</u>, and <u>interests as they relate to the host laboratories</u>.

**Notifications**-Offers are made by a Laboratory Education Directors (not research mentors) via e-mail. The offer package will provide details regarding the stipend, housing, travel, program orientation, identify of the research advisor and research project, the institutional setting, any special requirements.

All appointments are contingent upon proof of citizenship or citizenship status and the outcome of a formal background check.

### **Faculty Obligations**

- Commit to 10-weeks (40 hrs/week) in the program.
- Maintain health insurance during the appointment.
- Complete deliverables
  - Pre-survey
  - Post-survey
  - Oral presentation
  - Project report (6-page limit)
- Participating students must complete <u>deliverables</u>

## VFP Student Applicants

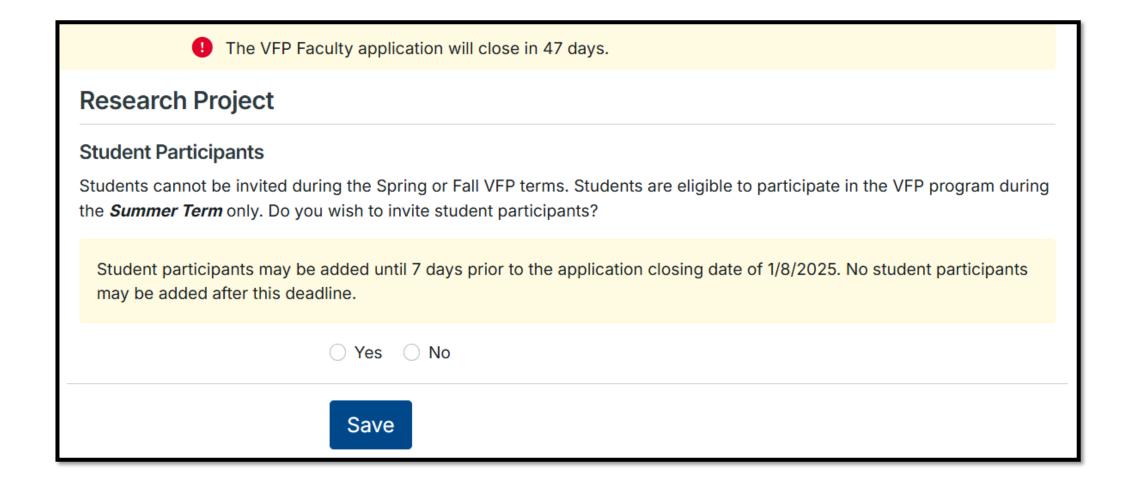
### VFP Student Eligibility Requirements

- 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.
- Enrollment-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: Applicants who will complete their undergraduate degree prior to starting their internship may apply as a "Graduating Senior", if (1) the applicant has not yet started a program of graduate study and will not matriculate as a graduate student prior to completing the VFP term, and (2) the time period between receipt of an undergraduate degree and starting the VFP term is less than one year.
- 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.
- Invitation to Apply Must be invited to participate by the applying faculty member. Student application deadline is the same as VFP faculty.
- Approval by Host Lab Subject to final approval by the DOE laboratory research advisor.
- Participation and Application Limit-Applicants are limited to participation in VFP to no more than two internships. Applicants can apply to the VFP a maximum of four times.

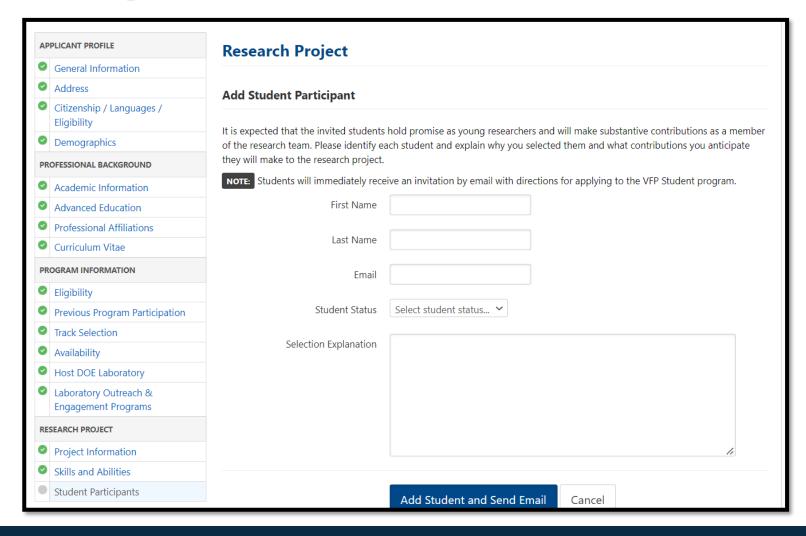
Before inviting students, verify they meet "all" eligibility requirements.



### **Inviting Students in the Portal**



# Research Project: Details Required to Invite Student Participants

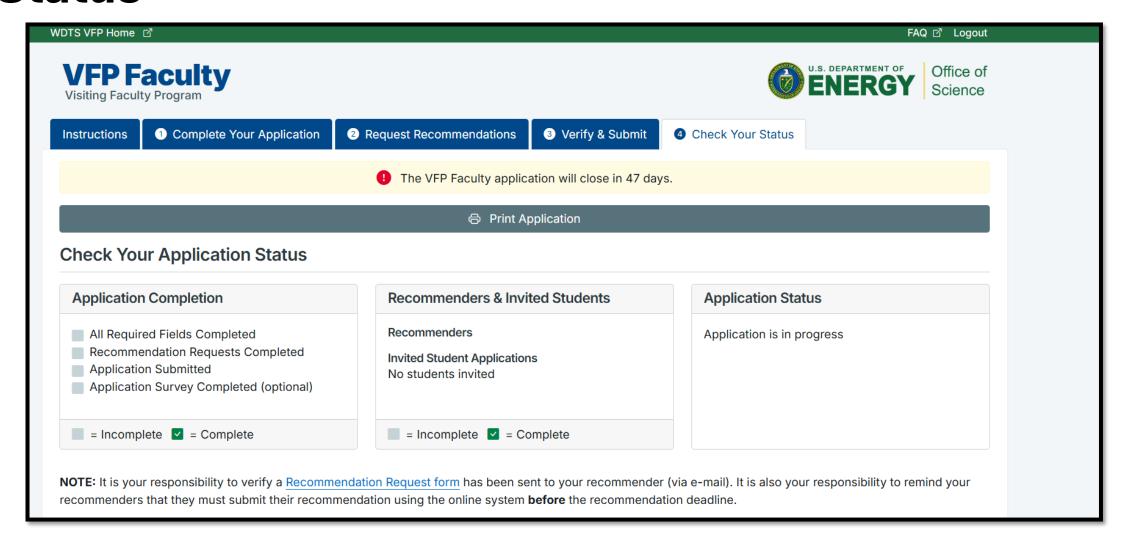


### **Application Process for VFP Student(s)**

- Application components include:
  - Background Information
  - Education Information
    - Transcripts: All personal identifiable information must be redacted. Additionally, students must submit transcript and enrollment details for colleges/universities attended within 5-years of starting enrollment at the current academic institution.
  - Laboratory/facility choice and research interests
  - Essays
    - Research Experience
    - Research Interests
    - Personal Interests
    - Professional Goals
  - Two letters of recommendation

Helpful Tip: If your VFP project includes students, invite them you to complete the student application as soon as possible.

# **Check Your Application and Student's Application Status**



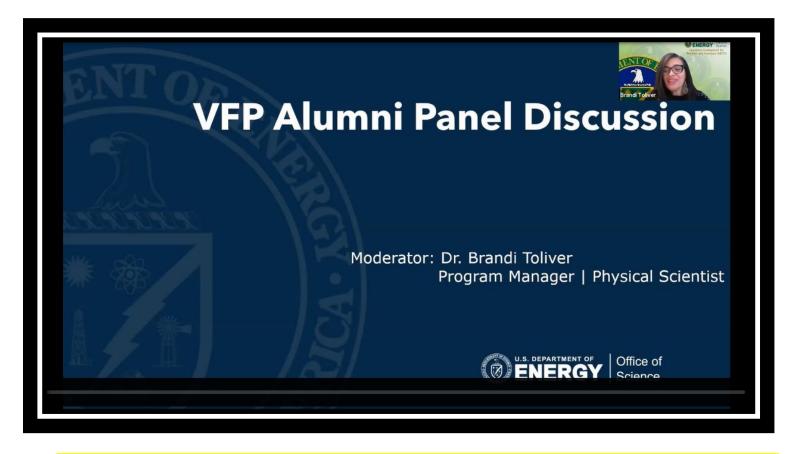
### **Key Dates for the VFP Application Process**

Visiting Faculty Program	Summer 2026
On-line Application Opens	October 23, 2025
Applications for faculty and students including recommendations due	January 7, 2026 5:00 PM EST
Offer Notification Period Begins on or around	February 4, 2026
All DOE Offers and Notifications Complete	On or around April 15, 2026

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

## **Additional Resources**

# More Resources: Recordings of Previous Application Assistance Workshops



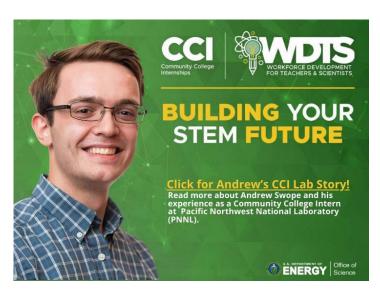
Recordings are posted at: https://science.osti.gov/wdts/vfp/How-to-Apply



### **Benefits of Participating in VFP**

- Contribute to exciting, real world, innovative, ongoing projects in the DOE national laboratories.
- Build professional networks and collaborations with laboratory research staff and other VFP participates.
- Enrichment opportunities through professional development and technical seminars.
- Access to world-class scientific facilities.
- Provide training for students.
- Grow research capabilities at your home institution.

## My Laboratory Story Series







Check out more stories here.

# Join Us for VFP Alumni Panel Discussion and Virtual Office Hours!!

**Workshop: Alumni Panel Discussion** 

Date: December 5, 2025, at 12:00 p.m. (ET)

Office Hours

**Date:** December 2,9, & 16, 2025 at 3:00 to 4:00 pm (ET)

#### **Who Can Attend?**

- Applicants
- Letter of Recommendation Writers

More info including registration is available on the VFP website.

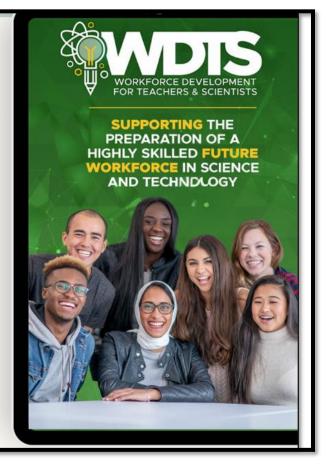
### **Virtual Office Hours!**



**REGISTER NOW** 

Thinking about applying for the Science Undergraduate Laboratory Internships (SULI) or the Community College Internships (CCI) programs?

Got questions? Applicants and letter of recommendation writers are invited to attend office hours to answer administrative questions such as those pertaining to uploading transcripts, submitting letters of recommendation, and general inquiries.



### Don't forget!!

- The application deadline is **January 7, 2026 at 5:00 p.m. Eastern Time**.
- Contact potential host lab as soon as possible.
- If hosting students, send an invitation as soon as possible.
- Plan early. Submit your application ahead of the deadline.
- Contact your reference letter writers as soon as possible. It is the applicant's responsibility to ensure recommendations are submitted by the deadline.
- Technical support for the online system is available during regular business hours.
- Send us a message if you have questions. Contact sc.vfp@science.doe.gov.





### Sign up for the Office of Science Gov Delivery!

- GovDelivery is an email subscription service to share SC news and information with the public.
- This is an opt-in, opt-out service where subscribers can decide which topics they're interested in, then join or drop off as their interests change.
- > Subscribers can sign up to receive items like news releases, meeting announcements, science updates, and funding opportunities from any or all our program areas.



#### **Use the QR Code or Go to:**

https://public.govdelivery.com/accounts/USDOEOS/subscriber/new?qsp=office\_of\_science

### **Connect With US**

- After this session, e-mail:
  - <u>sc.vfp@science.doe.gov</u> for questions about VFP.
- LinkedIn:
  - Office of Science
  - Office of Workforce Development for Teachers and Scientists (WDTS)

