January 29th, 2025



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VUSE Student Success & Resources

Summer Research Opportunities

Apply by 2/1



Summer Internships for Underrepresented Undergraduates Apply by 2/3

VANDERBILT VUNIVERSITY | Department of MEDICAL CENTER Biostatistics

Summer Internships

for Underrepresented Undergraduates

May 5 - June 13, 2025 Apply by February 3.

- Get paid while you gain experience in biomedical research: Earn a stipend of up to \$4,500. Receive mentoring from highly
- regarded, successful researchers
- Learn about professional opportuni-ties and develop crucial career skills.

Eligibility:

- · US citizen or permanent resident Underrepresented, socioeconomi
- ally underspreserved, or first-generation undergraduate
 At least one year completed in your program of study

About us:

- Located in Nashville, Tennessee Department members and alumni are leaders and advisors around the world in academia, industry, and government
- All incoming PhD students funded
 More than 40 peer-reviewed
 papers first-authored by trainees
 since 2020

For more details

and to submit your application visit vumc.org/biostatistics/vbsiuu or scan this QR code.









NSF-supported Research Experience for Undergraduates (REU) program

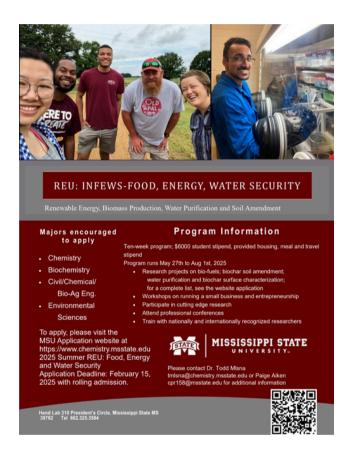
Apply by 2/15

The NSF-supported Research Experience for Undergraduates (REU) program at Mississippi State University, is focused on Food, *Energy, and Water Security*. This ten-week summer program offers students the chance to work with a faculty mentor on renewable energy research, covering biofuel production, biochar applications, and wastewater purification.

Participants will receive a \$6,000 stipend, housing and meals, and travel support for this 10-week summer program beginning May 27, 2025. We welcome applications from undergraduates who have completed at least their freshman year and are U.S. citizens or permanent residents.

Please share the following information and post the attached flyer with your undergraduate students. Please encourage your students—especially those interested in environmentally focused research—to apply by February 15, 2025, using this link. This is a great opportunity to gain hands-on research experience and professional skills.

For questions, feel free to contact Dr. Todd Mlsna at tmlsna@chemistry.msstate.edu. More info can be found on the MSU website.



Vanderbilt Green Fund

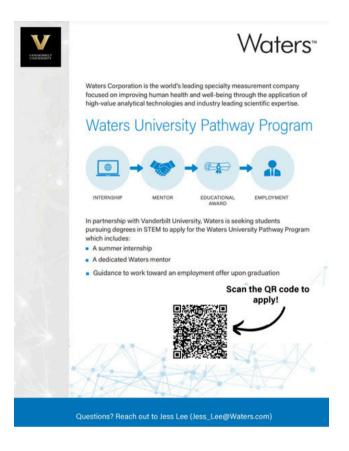
On 2/21

Do you have an idea to make Vanderbilt's campus greener? If yes, come join us for the Green-a-thon, Vanderbilt Green Fund's annual pitch competition, taking place on **Friday, February 21 (3:30-5:30 pm)** in the **Wond'ry 3rd floor lounge**. The Green Fund is a \$150,000 budget set aside to fund students' proposals for projects that make campus more sustainable. Work in-person (either in teams or individually) to get feedback from experts and potentially win up to \$200 in prizes! Dinner will be provided! Sign up here: https://forms.gle/EoGg4LJWvsVZYVos9

And if you can't attend in-person but still want to submit a proposal here is the link for you: https://forms.gle/F792ti5H4QHWppGD7 This is one of the best/most direct ways to have Vanderbilt turn your idea for a more sustainable campus into a physical reality, so don't miss out! Questions can be directed to mark.wang@vanderbilt.edu



University Pathway Program



Harvard's Post-Baccalaureate Program in Engineering and Applied Sciences

Due On 2/1

Program Overview

This SEAS Post-Baccalaureate Program provides post-baccalaureate students with a two-year bridge to graduate school through extensive research experience, access to academic courses, and professional development opportunities. Eligible participants must have completed their bachelor's degree within the last three years and demonstrate an intent to apply to PhD programs upon completion. Students will engage in research aligned with SEAS faculty projects.

• Applications are now open and will close on Saturday, February 1, 2025, 11:59 pm ET.

 $\cdot \qquad \mbox{Interested students must apply through the following application portal: https://apply.gsas.harvard.edu/portal/apply_rsi$

• Applicants can find eligibility information, a list of application materials, and FAQs on our website: https://seas.harvard.edu/office-diversity-inclusion-and-belonging/programs/post-baccalaureate-program

 \cdot While we welcome applications from students across all of the research areas listed on the flyer below, we are especially interested in students looking to conduct computer science research.

• The application fee has been removed for all applicants.

Prospective students can contact postbacc@seas.harvard.edu with any questions related to the program.



Post-Baccalaureate Program

This program aims to provide a bridge to graduate education in Engineering and Applied Sciences for students interested in gaining additional skills and enhancing their preparation for Ph.D. programs in the field. The two-year Post-Baccalaureate training program entails extensive research, academic coursework, and professional development opportunities. We welcome applications from members of historically underrepresented groups in Engineering and Applied sciences and individuals from disadvantaged backgrounds.

RESEARCH AREAS Applied Physics Applied Mathematics Bioengineering Computer Science Electrical Engineering Environmental Science & Engineering Materials and Mechanical Engineering



VINSE's 2nd Friends & Family Day

On 4/5

We are excited to invite you and your family to VINSE's 2nd Friends & Family Day, happening on Saturday, April 5, 2025 from 1:00 PM to 4:00 PM at the Engineering Science Building on the Vanderbilt Campus.

After the success of our inaugural event in 2022, we are thrilled to bring this interactive and educational event back! It's a wonderful opportunity for students, families, and the larger Nashville community to learn about the fascinating world of nanoscience through hands-on demonstrations, facility tours, and more. Register Here

Event Highlights:

- Hands-on Science Demonstrations: Explore engaging topics like microscopy, graphene transfer, light diffraction, ferrofluids, and more!
- Tours of VINSE's Core Facilities: Step inside our Cleanroom (12 and older), Advanced Imaging Suite, Analytical Lab, and 3D printing facility.
- Family-Friendly Fun: Participate in cleanroom gown dress-up stations, take photos with cleanroom cutouts, and enjoy a cleanroom window tour.
- Food & Prizes: Enjoy Ben and Jerry's ice cream, snacks and enter to win exciting door prizes.

Discover Answers to Fun and Fascinating Questions:

- How did a researcher win a Nobel prize with a pencil and tape?
- Can something be both a liquid and a solid?
- How can scientists make a nickel look like a penny?
- How do you keep sand dry in a bucket of water?
- And much more!

It's a great opportunity to explore the wonders of nanoscience in a fun and interactive setting!

Register Here

Power the Community Competition

Deadline on 4/15



Win big in the Power the Community competition! With a \$31,000 prize pool and a deadline of April 15, 2025, this is their chance to stand out in energy and sustainability. Register now

How to Negotiate a Salary

Due on 2/6



Beyond Internship

Due on 3/5



I got the Internship/Job, Now what?

Due on 4/8



2025 All Majors Career

On 1/29



2025 Engineering Industry Networking Night

Due on 2/18



STEM Funding and Research Opportunities

• For Undergraduates:

Paid Summer 2025 Undergraduate Research Placements:

Over 700 programs – NSF REU, NASA, NIH and other paid summer research opportunities for undergrads https://pathwaystoscience.org/Undergrads.aspx

• For Financial Support in Graduate School:

Fellowships and graduate programs in a wide variety of STEM disciplines:

http://www.pathwaystoscience.org/Grad.aspx

• For tips on applying and associated resources:

http://www.pathwaystoscience.org/toolbox.aspx

• For opportunities specifically in the Ocean Sciences:

http://www.pathwaystoscience.org/oceanscience.aspx

• For opportunities specifically in Engineering:

http://www.pathwaystoscience.org/engineering.aspx



VUSE Summer Research

Due on 2/7



Launch Tennessee Summer Intern Program

Due on 2/14

LaunchTN's Summer Intern Program connects talented students from across Tennessee with innovative startup companies, venture capital firms, and entrepreneurs. Since 2014, we've connected 392 intern placements with Tennessee companies, and last summer 43% of interns extended their roles with their host companies after the program ended!

Here's how the LaunchTN Summer Intern Program benefits students:

- Paid Internships: Students earn \$17/hour while gaining real-world experience.
- Professional Development: We offer workshops and networking events to enhance their skills throughout the summer.
- Statewide Opportunities: Internships are available with a variety of companies throughout Tennessee, as well as some hybrid or remote opportunities.
- Potential for Continued Employment: Many interns transition into permanent or part-time roles after the program.
- Full program and application information is found on our webpage.



ACEC Research Institute

The ACEC Research Institute is the leading source of knowledge and thought leadership for creating a more sustainable, safe, secure, and technically advanced built environment. The Institute's mission is to deliver information and business strategies that guide and elevate the engineering industry through research, forecasts, trend analysis and academic scholarships.

Through the ACEC Research Institute scholarship portal, qualified students have access to more than 100 scholarships totaling nearly \$1 million in grants, including:

- A \$5,000 NCEES Scholarship specifically for students from Tennessee
- ° A variety of diversity and inclusion scholarships, including those for HBCUs
- ° Both merit-based and need-based opportunities

The portal will automatically match students with ALL scholarships available to them based on their completed application. Application deadlines vary, so students are encouraged to apply today!

You can share the attached graphic and the following link with your students to help spread the word:

https://acecinstitute.awardspring.com/

For more information or support, please feel free to reach out to me. Thank you for your time and assistance in helping us empower the future generation of engineers.



Tennessee Engineering Foundation (TEF) **Scholarship**

Due on 3/14

The Tennessee Engineering Foundation (TEF) is excited to announce its 2025 scholarship opportunity for engineering students across Tennessee, and we would love your help in encouraging eligible students to apply!

About the Tennessee Engineering Foundation:

TEF is a nonprofit organization committed to nurturing the future of engineering by providing financial support to students who aspire to make a difference through innovative engineering solutions. This scholarship is aimed at helping dedicated engineering students achieve their educational goals and advance toward impactful careers in the field.

Scholarship Details:

The TEF scholarship awards four (4) \$3,500 scholarships to students attending a college or university in Tennessee, who demonstrate academic potential and a passion for the engineering industry.

Eligibility Requirements:

Must be enrolled as a Freshman, Sophomore, Junior, Senior, Fifth-Year Senior, or Master's student in Fall 2025.

Major in one of the following areas: Aeronautical Engineering Technology, Aerospace Engineering, Agricultural Engineering, Bioengineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Drafting/Design Engineering Technology, Engineering Management, Environmental Engineering, Mechanical Engineering, Mining Engineering, Nuclear Engineering, Petroleum Engineering, Surveying and Geomatics Engineering, Systems Engineering, or related fields. Be a U.S. Citizen.

•

Enrolled in a Tennessee college or university for the 2024-25 academic year.

Quick Facts:

• Application Deadline: March 14, 2025

• Award Amount: Four (4) \$3,500 - Scholarships

We encourage you to share this opportunity with students who may benefit from the scholarship and align with its requirements. For more details and to apply, students can visit www.acectn.org/scholarships or reach out to Kasey Anderson (kanderson@acectn.org).



Pharma Industry Experience - NIIMBL

Due on 2/7

Here is a great 1-week summer experience to expose you to the Pharmaceutical industry segment. This is provided by an industry organization, held in many areas of the country to aid attendance. The attached flyer discusses the program goals and benefits of this experience. Apply on their website.



iX VUSE

Are you interested in gaining global work experience through an international internship?

Imagine working on cutting-edge projects, like developing machine learning models for a cancer research company, while enjoying the stunning views of Cape Town's beaches and mountains. This was my reality this past summer, and it could be yours too!

My name is Michael Davis, and I am a junior here at Vanderbilt majoring in Biomedical Engineering and following the premed track. Last summer, I had the incredible opportunity to participate in an internship and professional development program in Cape Town, South Africa. iXperience, collaborates with various local companies in South Africa, providing students with a unique industry experience while helping them build their résumés. While I participated in their Data Science program, they also offer opportunities in consulting, investment banking, and digital marketing.

If this resonates with you, feel free to email me: michael.a.davis@vanderbilt.edu and explore the opportunities on the website linked here!

Engineering Focus Areas

Did you know you could declare a new area of specialization? Focus areas provide guidance to students wishing to concentrate on a specialized topic within engineering. Focus areas are typically nine credit hours, and qualifying courses are listed in the catalog. Scan the QR code to learn more!



U.S. NSF Funded International Research Opportunity

For Summer 2025

Call for the Applicants for the U.S.-Denmark-Program—NSF-IRES-INNOVATOR in Summer 2025

- Call for Summer 2025:
 - Apply now to become a paid international researcher on an exciting new U.S.-NSF-funded project with Dr. Masoud Davari and Dr. Masoud Karimi-Ghartemani in the Artificial Intelligence (AI)-Power and Center of Reliable Power Electronics (CORPE) directed by Prof. Frede Blaabjerg in the AAU Energy Department at Aalborg University (AAU) in Aalborg, Denmark.
 - For information on eligibility, stipends, and the application form—go to the following link and/or contact the mdavari@georgiasouthern.edu email.
 - Click on the U.S.-Denmark-Program—NSF-IRES-INNOVATOR Website hyperlinked here.

- Alternatively, copy/paste the https://sites.google.com/georgiasouthern.edu/usdenmark-nsf-ires-innovator/home link.
- Past Experiences:
 - For information on student participants' research and cultural activities in Summer 2024—go to the following link.
 - Click on the Summer 2024—Cohort Experiences and Cohort-Based Research Projects Page hyperlinked here.
 - Alternatively, copy/paste the https://sites.google.com/georgiasouthern.edu/usdenmark-nsf-ires-innovator/summer-2024-cohort-experiences-and-cohort-basedresearch-projects link.
 - For information on student participants' research and cultural activities in Summer 2023 go to the following link.
 - Click on the Summer 2023—Cohort Experiences and Cohort-Based Research Projects Page hyperlinked here.
 - Alternatively, copy/paste the https://sites.google.com/georgiasouthern.edu/usdenmark-nsf-ires-innovator/summer-2023-cohort-experiences-and-cohort-basedresearch-projects link.

Conference Travel Funds

Apply Yearlong



STEM Spring Tutoring

V School of Engineering			
STEM TUTORING			
JAN. 21 - APR. 21 (EXCLUDING BREAKS)	SPRIN	IG 2025	EVERY DAY 8AM-9PM CT
BME 2100	CS 1100	MATH 1100	MATH 2400
CE 2200	C\$ 1101	MATH 1200	MATH 2420
CHBE 2200	C\$ 1103	MATH 1201	MATH 2810
CHEM 1601	CS 2201	MATH 1300	MSE 1500
CHEM 1602	ECE 2112	MATH 1301	PHYS 1601
CHEM 2222	ECE 2123	MATH 2300	PHYS 1602
AVAILABLE ON WEB AND APP			FREE TO ALL VU STUDENTS!

Contact: The Office of Student Success at vuse-studentsuccess@vanderbilt.edu Additional tutoring services: www.vanderbilt.edu/tutoring





Follow E-Council socials!

Want your organization to be featured in next week's E-Council newsletter? Send a short blurb and graphic to <u>kathleen.j.hartono@vanderbilt.edu</u> by Tuesday at 6pm to be included in the Wednesday newsletter.