

HERFF ENGINEERING

2024 EDITION



THE UNIVERSITY OF
MEMPHIS
Herff College of Engineering

Join our family...

When I began my tenure as dean of the Herff College of Engineering, I was asked by those around me why Memphis? I tried to explain what I felt during my first visit to the city. There is a vibe and energy in Memphis that is not matched anywhere else...one that you have to experience for yourself. I was scrolling through social media one day when I found a post by a friend who, like me, is a Florida transplant. She started her post with “Why Memphis? I get this question all the time.”

She moved from Florida to Memphis and is living within a three-mile radius of Broadway plays, the ballet, the NBA, college basketball and football, one of America’s greatest riverfronts, endless local cuisine, and a variety of live music on a daily basis. There is more sun than rain and the falls are long, but her favorite part of living in Memphis for her...the people. One day after a stressful trip back to Florida, her property assessor, a life-long Memphian, brought her flowers. “This is what Memphians do. They circle the wagons when you least expect it and need them the most. That is why we chose Memphis.” I have experienced this same welcome in my time in Memphis.

At the Herff College of Engineering, we will support each student as if they were our very own. We provide a nurturing environment for our students, helping them excel in an academic and research focused environment and grow personally, socially, and professionally. It is important to us that each student feel included, safe, and comfortable at the University of Memphis. We encourage the entire family to visit our campus and meet the faculty and staff who will be a part the students’ lives during their time at Herff. From day one, each one is welcomed into the fold and encouraged to connect with their engineering community, so they will have a greater chance of success.

Please contact us any time at herffengineering@memphis.edu to share your comments or ask questions about Herff and how we are the best fit for you and your family.

Dr. Okenwa Okoli
Dean, Herff College of Engineering



Why Engineering?

Engineering is an ancient and noble profession created with the purpose of bettering humanity through technology. As an engineer, you will have an impact on your community and world that is unlike any other profession. The world needs people like you to join the ranks of talented engineers who confront challenges and solve problems of real significance to the lives of everyday people.

Following is a list of top ten rewards and opportunities listed in Studying Engineering: A Roadmap to a Rewarding Career, by Raymond Landis, et al. (Discovery Press, 2019)

JOB SATISFACTION

Good pay and rewarding work are recipes to being satisfied with your job. That is what engineering offers.

CAREER OPPORTUNITIES

Changing careers is no problem with a degree in engineering. It provides a strong foundation for many fields and industry.

BENEFIT SOCIETY

Engineers work on projects and solve issues that effect and change the world.

CHALLENGING WORK

In engineering, you will confront challenges and solve problems of real significance to the world.

INTELLECTUAL DEVELOPMENT

Engineers learn to think logically and solve problems, which are valuable life skills.

CREATIVE THINKING

Engineers are talented, creative thinkers who find solutions.

DISCOVERY

Engineers are interested in the why and how things work in technology and science.

FINANCIAL SECURITY

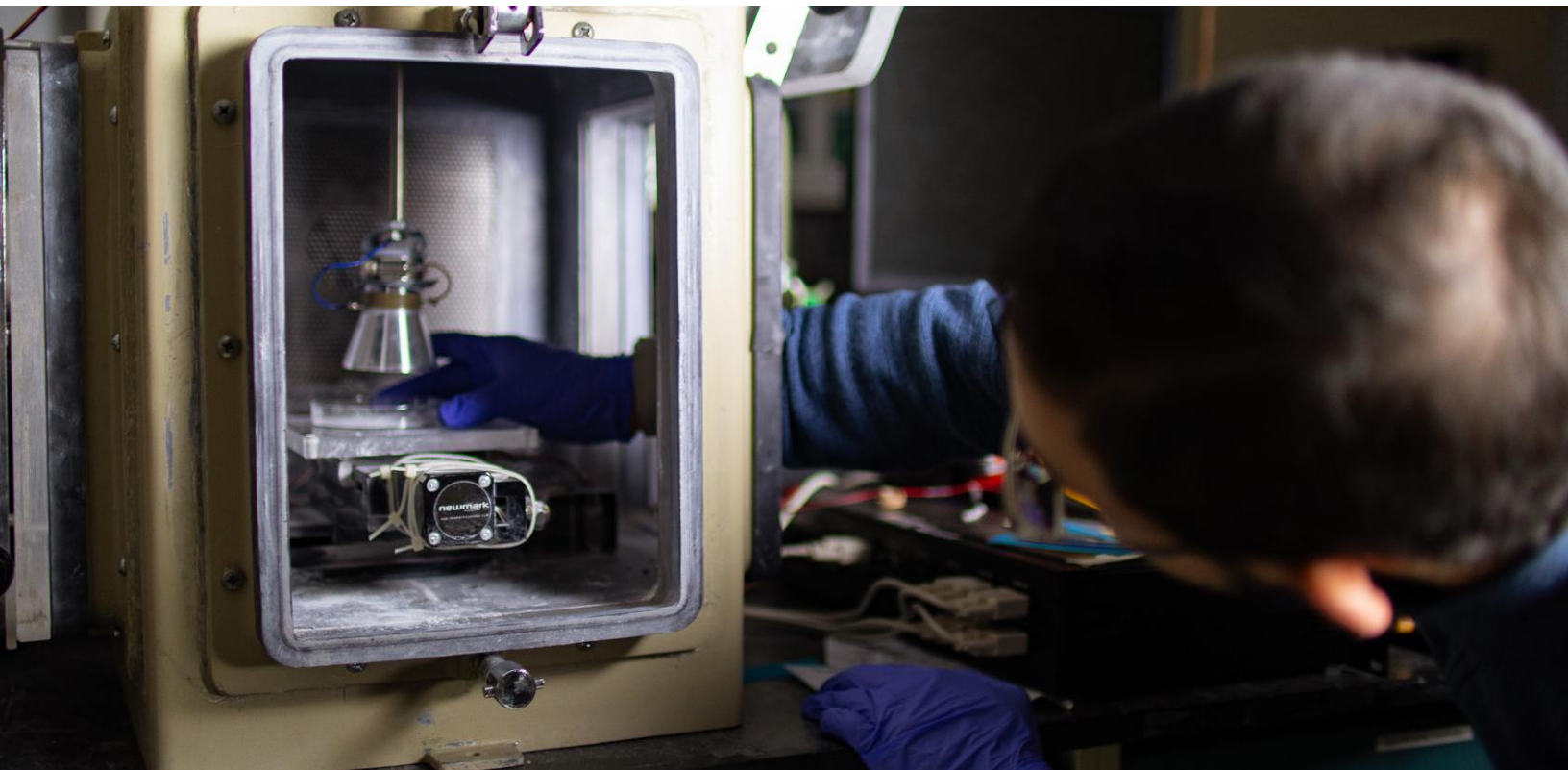
Engineering graduates receive the highest starting salary of any discipline.

PRESTIGE

Engineers are part of a time-honored profession that earns them world-wide respect.

PROFESSIONAL ENVIRONMENT

Freedom to choose and grow is a hallmark of the engineering profession.



Why Memphis?

Get involved in any of our 250+ student organizations, such as student government, honor societies, Greek life and community service programs, along with countless other activities. Within Herff, there are student organizations just for engineering students: the Engineering Student Council, the National Society of Black Engineers and the Society of Women Engineers, just to name a few.

There's so much to do here on any given day. Something really amazing is going on in the City of Memphis right now. Our restaurant scene is exploding into a foodie paradise. You can hear live music any day of the week. Bike, walk or run on Greenline trails that connect every part of the city. Hit up Shelby Farms, one of the largest urban parks in the United States. And then unwind and enjoy nightlife in Cooper-Young, Overton Square and Broad Avenue Arts District.

If you can't find something to do here, you're not trying hard enough.

AN ABUNDANCE OF ENGINEERING INDUSTRY IN OUR BACKYARD

We're a town built on innovation and powered by ideas.

In fact, some of the world's biggest biomedical, logistics and transportation companies are headquartered in Memphis. In nearby Stanton, BlueOval City will provide thousands of jobs and internship opportunities to students and graduates.

The lines between school and city are blurry, and we like it that way. We're passionate. We're proud. We're fiercely loyal. And we love our town.



With 400 student-athletes competing in 19 different intercollegiate sports, there is always an opportunity to watch the Tigers compete (students get in free!). The UofM is a charter member of the American Athletic Conference, and our athletic programs compete at the highest level as an NCAA Division I institution. It's the South, so athletics are big. But this is also Memphis, so athletics bring us together to be proud, eat some barbecue and have some good times. Then repeat often.

Why Herff?

Ask most Herff grads, and they'll agree — time spent here is a transformative experience.

We're a tight-knit community that takes care of our own, and we provide a truly hands-on experience. Undergraduates work shoulder-to-shoulder with our world-renowned faculty, along with engineers and mentors. And they participate in groundbreaking research that is actually changing the world.

So what else makes Herff special? Most top engineering programs have more than 3,000 undergraduate students. We have just over 1,300. You don't have to fight to get your professor's attention, not to mention they'll know your name. Collaboration is our culture.

A PLACE DESIGNED FOR YOU

The **College of Engineering Living Learning Community (ELLC)**, located in the east wing of Shirley C. Raines Centennial Place, provides first-year students a living environment that promotes personal growth, academic success and a smooth transition from high school to college. Peer mentors help students navigate their first year, as they gain instant access to networking events, free tutoring, industry tours and professional development resources. Plus, living with like-minded students expands the support structure of our freshmen. Students who participate in a living learning community have higher academic success rates, higher college graduation rates, higher levels of satisfaction with their college experience and an easier time connecting with their peers.

CARNEGIE R1
TOP-TIER RESEARCH INSTITUTION



ANTHONY MILES

B.S. in Civil Engineering, Dec. '24

Anthony is a winner of the Carson Circle Award. This prestigious award is given to outstanding graduating seniors exemplifying former VP for Student Affairs Dr. Donald K. Carson's ideals of making the University of Memphis a better place through involvement and leadership on campus. Anthony was also named Mr. UofM in Fall 2023.



See Anthony's Student Success at the UofM feature created by The College Tour.

RESEARCH OPPORTUNITIES

Herff Engineering is located in a great public research university. Our undergraduates get unprecedented research opportunities in graduate-level labs and participate in incredible research and design projects with actual engineers, professors, mentors and other Herff students. We're all about a firsthand approach to changing the world, which is why we let students do more. More lab access. More projects. More opportunities to learn and grow.

Departments

Since offering its first classes in 1964, Herff College has developed a reputation for excellent instruction. Within our five academic departments we offer 6 undergraduate degrees and many exciting activities and services that enrich or smooth the path to an engineering degree.

BIOMEDICAL ENGINEERING CIVIL ENGINEERING

Biomedical engineers make a difference in every aspect of medical care, from diagnosis and monitoring to treatment and recovery from disease or injury. They are at the center of the union of engineering, biology, chemistry and medicine that is driving health-care innovation and technologies in the 21st century.

Biomedical engineers focus on advances in technology and medicine to develop new devices and equipment for improving human health. Their ingenuity save and improve lives everyday. For example, more than one million people are able to walk again every year thanks to advancements in knee and hip implants by biomedical engineers.

Consider the start of a typical day. After waking, showering, and preparing for the day ahead, you jump in the car and head to your destination, maybe picking up a coffee along the way.

In this short amount of time, you have been impacted by water resources, environmental products, transportation, structural, geotechnical, and construction engineers and managers. Civil Engineering provide quality-of-life improvements to billions of people, contributing to and sustaining the built and natural environment and critical infrastructure upon which society thrives.



ENGINEERING TECHNOLOGY

Engineering technology is all about using and understanding equipment and concepts to implement engineering designs – the machines, computers and code that bridge the gap between ideas and reality. Engineering technologists work with robotics, industrial automation, and computerized machine tools.

Engineering technology encompasses many areas within engineering, like networking, databases, project management, quality and processes. Want to work within manufacturing, distribution or logistics? Then engineering technology may be your field. Engineering Technologists are the doers of the engineering world. They like to roll up their sleeves and get in the thick of it. They work with engineers and scientists to produce new technology.



memphis.edu/et

ELECTRICAL AND COMPUTER ENGINEERING

If you want to know what an electrical or computer engineer does, look no further than the smart phone in your hand. Electrical and Computer Engineers are the makers of modern technology, from mobile devices and tablet computers, to smart power grids and Mars rovers.

These engineers design the protocols that transmit voice and data to your phone, the electronic circuits that allow you to interact with your phone through sound, sight, and touch, and the software for that connects to the hardware allowing the apps that we all use.

It's no secret that electrical and computer engineers are needed now more than ever because nowadays, what isn't digital?



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MECHANICAL ENGINEERING

Mechanical engineers contribute to society and the economy in many areas — energy, manufacturing, automotive, defense, aerospace, robots and unmanned vehicles, air-conditioning and refrigeration, medical devices and many others. In other words, the majority of the products you use every single day are all made possible by mechanical engineers.

Hit the ground running with one of the broadest skill sets in engineering. Mechanical engineers use their breadth of knowledge, versatility, creativity and teamwork skills to build new products and systems. All those cool things you read about, like establishing colonies on the moon and Mars, 3D printing of biomedical implants or building the next generation aircraft and automobile engines?



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Student Services

We are here to support students from the moment they decide to join our family until well into their careers. We offer a variety of programs and services that provide future, current and former students the tools they need to be successful academically, personally and professionally.

PEER TUTORING

The Herff College of Engineering provides free tutoring and academic support to all our undergraduates. We focus on challenging courses that students take in their engineering curriculum.

Tutoring services include:

- Drop-In Tutoring: conducted by peers in the Student Services Tutoring Conference Room.
- Cookies & Calculus: designed for the Engineering Live & Learn Community and held each Tuesday in the Student Commons area.



STUDENT SPACE

Named for the former dean who lead the college for a decade, the Dean Richard Sweigard Engineering Student Services space is located on the third floor of the Engineering Administration Building. The space is open to Engineering Students and is the perfect spot for study, collaboration and relaxation. It is equipped with a small computer lab, printer, whiteboard walls and study areas.

STUDENT ORGANIZATIONS

Herff offers more than 18 student organizations for engineering students, including:

- Engineering Student Council— group composed of a member of each Herff student organization to maximize collaboration among student groups and funding.
- National Society of Black Engineers— designed to increase the number of culturally responsible Black Engineers who excel academically and professionally and positively impact the community.
- Society of Hispanic Professional Engineers— empowers the Hispanic community to realize its fullest potential and impact the world through STEM awareness, access, support, and development.
- Society of Women Engineers— gives women engineers and engineering students a unique place and voice within the engineering industry.

And a variety of honor societies and local chapters of national student professional organizations.

DESIGN LAB

Located in our Engineering Research and Innovation Center, the Student Services Design Lab is a collaboration space for Engineering students. Students use the space to work on class projects, study as a group or practice on presentations. The lab is staffed by student workers who are available to assist in projects or check out equipment for class assignments.

Career Services

Many Herff students land permanent jobs before they graduate because Herff helps you build a strong résumé while in college. We are recognized nationally for providing our students with relevant engineering work experience through a paid Cooperative Education and Internship Program. In addition, we biannually host a Herff Career Fair that is solely focused on getting top engineering organizations from around the country on campus and face to face with our students.

Real world experience as a student

Ranked by U.S. News & World Report as a Top 10 university with successful internship programs, the University of Memphis is driven by doing. Herff's Academic Internship Program provides students with the valuable, real-world experience that only hands-on internships provide.

Co-op/Internship Benefits

- The Tennessee Society of Professional Engineers (TSPE) considers three semesters of co-op coursework equivalent to one year's worth of professional work experience.
- Students with co-op credit or internship credit on their academic transcripts get higher starting salaries.
- Herff engineering co-op/internship positions with salaries well above minimum wage.

Many of our industry partners provide on-site training for Herff student interns because they hope to hire them after graduation.

Top employers of Herff graduates

- Amazon
- Autozone, Inc.
- BlueOval SK, LLC
- BMW Group MC
- Carrier Corporation
- CN - Canadian Railroad
- City of Memphis
- Cummins
- Delta Faucet Co.
- Disney
- ELOS Medtech
- FedEx Express
- Flintco, LLC
- Ford Motor Company
- Harrah's Entertainment
- Hyosung HICO
- International Paper
- Jackson Energy Authority
- Kroger
- Medtronic
- MLGW
- MicroPort Orthopedics, Inc.
- Nike
- General Electric
- Northrop Grumman
- Oak Ridge Institute
- PepsiCo
- Pfizer
- Raytheon
- Schneider Electric
- Smith + Nephew
- St. Jude
- Styker
- TDOT
- Tennessee Valley Authority
- Toyota Motor Manufacturing
- Turner Construction Company
- Department of Homeland Security
- US Army Corps of Engineers



GET HELP PAYING FOR SCHOOL!



We believe talent and potential count for more than the ability to pay. There are plenty of scholarships available to enrolled UofM students. To

see the scholarships Herff has to offer, visit enr.memphis.edu/scholarships.

HERFF MERIT SCHOLARSHIPS

In-State: \$4,000/ year (maximum of 4 years)

Out-of-State: \$5,000/ year (maximum of 4 years)

ACT Composite	SAT	ACT Math	SAT Math	High School GPA
26	1230	26	610	3.5
25	1200	26	610	3.75
24	1160	26	610	4.0

HERFF TRANSFER SCHOLARSHIPS

\$3,000/ year (maximum of 3 years)

3.25 GPA

Completion of the following courses: Calculus I, Physics I with Lab, English Composition I & II and Chemistry I with lab

UNIVERSITY SCHOLARSHIPS

To check out UofM scholarships, visit memphis.edu/scholarships.





SEE US

COME

Don't just read about it.

We invite you and your family to discover the many opportunities Herff has to offer. The Herff College of Engineering is a great place to earn your engineering degree, and we want you to learn that for yourself.

Visit enr.memphis.edu/visit today to schedule!





THE UNIVERSITY OF
MEMPHIS
Herff College of Engineering

See for yourself why Herff is such an amazing learning community. Tours offered Monday through Friday, year-round.

enr.memphis.edu/visit

The University of Memphis is an Equal Opportunity/Affirmative Action University. It is committed to the education of a non-racially identifiable student body.