

MOMENTUM

UCF Department of Mechanical and Aerospace Engineering
Orlando, Florida | Volume 9 | 2024-2025



UCF

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**Mechanical and
Aerospace Engineering**
UNIVERSITY OF CENTRAL FLORIDA



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Momentum is an annual publication that highlights the achievements of the students, faculty, staff and alumni from the University of Central Florida's Department of Mechanical and Aerospace Engineering.

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Letter from the Chair

Dear Colleagues,

It's been a year of unprecedented growth for our university, our college and our department, and I've been delighted to be at the helm of the UCF Department of Mechanical and Aerospace Engineering during this period of positive growth.

UCF President Alexander Cartwright recently announced that UCF has met 12 metrics to be designated a Preeminent State Research University by the Florida Board of Governors. This milestone is years in the making and is a testament to the hard work of faculty and staff, including those in the MAE department.

The university is also leading a \$5 million consortium to train the next generation of nuclear engineers. The consortium is backed by the U.S. Department of Energy's National Nuclear Security Administration and is led by MAE professors Subith Vasu and Jayanta Kapat.

Within the College of Engineering and Computer Science, a total of 39 faculty were hired for the fall semester — setting a record for new hires. Nine of those new faculty have joined the MAE department and bring with them

an expertise in areas ranging from hypersonics to solar energy. You can learn more about the new additions to our department on the next page.

I'm also proud to witness the impact that our students and alumni continue to make in their educational journeys and their careers. On the cover and in the following pages, you will meet Chloe Pinkston, an aerospace engineering alumna who earned the Order of Pegasus, the highest award from the university. She's embarking on a new journey — a graduate degree in UCF's new aerospace medicine program.

You'll also read about FLUIX, an alumni-led startup that recently secured more than \$2 million in investment funding to roll out an innovative artificial intelligence-based cooling system for data centers.

I look forward to seeing what 2026 has in store for our students, faculty and alumni, and I hope you enjoy this issue of our magazine.

Go Knights! Charge On!

Hyoung Jin "Joe" Cho, Ph.D.

Interim Chair, UCF Department of Mechanical and Aerospace Engineering

MEET OUR NEW

The UCF College of Engineering and Computer Science broke a hiring record this fall with 39 new faculty members joining the college. The hiring initiative will help increase research and teaching across key areas such as artificial intelligence and hypersonics. Of the 39, nine faculty are supporting the Department of Mechanical and Aerospace Engineering. Learn more about these faculty at mae.ucf.edu.



EDWARD CLUTTER

Clutter is an instructor who specializes in computational fluid dynamics.



PHILLIP HARGROVE

Hargrove is an instructor who spent eight years at NASA's Kennedy Space Center.



AARON HOSKINS

Hoskins is an associate lecturer who joins UCF from California State University, Fresno.



RHETT JEFFERIES

Jefferies is a senior lecturer who previously worked at the Penn State Applied Research Laboratory.



SHIN YOUNG JEONG

Jeong is an assistant professor with an expertise in renewable and solar energy.



SUNG MIN JO

Jo is an assistant professor who hails from the Korea Advanced Institute of Science and Technology.



HAO LI

Li joins UCF from the Massachusetts Institute of Technology's mechanical engineering department.



PATRICK MEAGHER

Meagher is an assistant professor and an expert is computational fluid dynamics.



DARSHAN YADAV

Yadav is a lecturer who previously taught computer-aided design at Florida International University.



WHERE SCIENCE MEETS THE STARS

UCF Student Achieves Excellence in Engineering, Medicine

Chloe Pinkston, an aerospace engineering student on the pre-medical track, is poised to make significant contributions to the emerging field of aerospace medicine.

A native of Oviedo, Florida, Chloe's journey at the University of Central Florida reflects an exceptional blend of academic rigor, groundbreaking research and a passion for innovation.

"Even though it is such a big school, I was able to find my place at UCF and create my own unique path," says Pinkston, who has enjoyed finding friends studying a variety of disciplines. "UCF provides so many opportunities for me to do research and get involved in research leadership through the student Undergraduate Research Council."

Majoring in aerospace engineering with minors in bioengineering and mathematics on the pre-medical track, Pinkston is also a Burnett Honors Scholar. She says it was an opportunity "too good to turn down," with a Lockheed Martin STEM Scholarship included.

Growing up close to campus, Pinkston says felt a sense of familiarity and community at UCF, making it the ideal place to pursue her aspirations. Her grandparents are UCF alumni, and now, her younger sister is following in Pinkston's footsteps, studying aerospace engineering too.

While initially focused on medicine, Pinkston's interests broadened in high school, where she took advanced coursework in biology, chemistry and all three physics AP classes that were offered. This foundation, plus her love of mathematics, sparked her interest in aerospace medicine, which combines her passion for science and her fascination with engineering and exploration. Although she loved the nine-hour-long airplane flights to visit family in France, she also noticed that her body experienced changes afterwards.

"I'm especially interested in the effects of reduced gravity, oxygen and pressure on the human body," Pinkston says. "I hope to be at the forefront of this research, as well as contribute to the development

of technologies that help protect and optimize human health in these conditions."

Her aerospace medicine background will allow her to better understand, design and test the technical systems impacting human health and position her in a valuable role on interdisciplinary teams, where collaboration between medical and engineering professionals is essential.

Her undergraduate career has been marked by rigorous research and academic achievements, especially in biomedical research, which combines her areas of interest.

Pinkston has spent over three years in the assistive device lab at the UCF Academic Health Sciences Campus in Lake Nona, studying the properties of the Achilles tendon, particularly stiffness and energy return during walking. This biomedical research, which began during her first year, has implications for improving mobility and understanding human biomechanics. Currently focused on healthy adults, Pinkston envisions future collaborations with Nemours



Children’s Hospital to extend her work to pediatric applications.

Beyond her academic pursuits, Pinkston has been volunteering with organizations like HOPE Helps and Shepherd’s Hope Clinic, where she assists with patient communication and record-keeping.

Reflecting on her decision to study engineering, she attributes her passion to the unique opportunity to blend medicine with cutting-edge technology. She sees aerospace engineering as a pathway to specialize in aerospace medicine, a field that aligns with her dreams of solving complex challenges and improving lives through innovation.

She is part of a group that participated in engineering a Senior Design capstone project, which involved designing, modeling, constructing and flying a remote-controlled unmanned aerial vehicle capable of rapid delivery of emergency supplies that could be marketed as cost effective. This project, operated by a pilot using a remote control that sends a signal

to the plane’s receiver and applies the pilot’s input to a motor, shows Pinkston’s engineering expertise and teamwork skills.

At UCF’s 2025 Founders’ Day, Chloe was recognized with the Order of Pegasus award, UCF’s highest honor for students. As graduation nears, she recently defended her honors thesis.

“I’m grateful for my time at UCF, which is a place that nurtured my academic and personal growth,” she says. “I am excited to start medical school, combining my interests in engineering and healthcare.”

*Written by Margot Winick
Photos by Antoine Hart*

Listen to Pinkston’s episode of our podcast: bit.ly/4peGnnM.



International Research Presentation Leads to Spot on Croatian News

It’s not uncommon for UCF students to travel abroad to present their research at industry and academic conferences. But not every Knight has the opportunity to discuss this experience on the international news.

Aerospace engineering undergraduate student Ossyris Bury had the unique opportunity of being interviewed on the Croatian news about her experience at the 13th International Student Research Symposium in Varazdin, Croatia, where students and faculty met from around the world. She presented her ongoing Honors Undergraduate Thesis (HUT) project titled “Vibration-Based Control of Nonlinear Dynamic Systems.”

“As an undergraduate researcher, being able to share my findings and hard work abroad is a rare and invaluable experience,” Bury says. “Many undergraduates are fortunate to even present their work in another state, nevertheless another country. When this opportunity was offered to me, there was no hesitation in my acceptance; it’s the opportunity of a lifetime.”

The first-generation college student was able to share her knowledge and findings abroad, and as a result, she was invited for an interview on the Croatian news. From the moment she got there to the moment she left, she says the hosts were very hospitable.

“Being interviewed on Croatian News was surreal,” Bury says. “They shared their customs, nature, architecture and history with us. I was so excited to share my experiences on the local news to tell everyone how amazing it was.”

Streamlining Systems With AI

FLUIX Secures \$2.1M to Revolutionize Data Center Energy Efficiency with AI

Imagine a world where the data centers that keep the world connected can run more efficiently, consume less energy and reduce costs without sacrificing performance. Through the work of mechanical engineering alumnus Abhishek Sastri '20 and his startup FLUIX, this has become a reality.

FLUIX has just announced the successful close of a \$2.1 million funding round, with the goal of using AI-powered energy optimization techniques to push the boundaries of data centers. Its game-changing AI Autopilot platform, A.I.M.I., uses artificial intelligence to streamline crucial building systems such as HVAC, water and IT infrastructure, making data centers more sustainable and cost-efficient.

The need for fast data processing and large amounts of storage has made data centers one of the fastest growing energy consumers. In fact, researchers estimate these facilities could account for nearly 10% of global electricity consumption by 2030.

But FLUIX aims to change that. Its AI-powered solution acts like a digital brain that manages all aspects of the operations within data centers to run at peak efficiency. Think of it as the ultimate facility manager, but

with more intelligence and a smaller environmental footprint.

“Data centers are among the most complex buildings to optimize, with diverse equipment, changing parameters and siloed data systems,” Sastri says. “That’s where A.I.M.I. steps in. Its multi-agent capabilities bridge the gap between HVAC, water and IT systems, enabling autonomous control based on environmental factors and IT load data. With A.I.M.I., data centers can achieve unparalleled efficiency, saving energy and reducing costs across any equipment or location.”

The \$2.1 million raised will allow FLUIX to accelerate platform development with clients in key regions, growing sales and expanding the team. The funding was kicked off by Pi Labs, a successful UK-based venture capital firm that specializes in startups. Faisal Butt, founder and managing partner at Pi Labs, believes that FLUIX’ new technology is vital to addressing global energy consumption.

“As the world’s reliance on data centers grows exponentially, as does our responsibility to ensure these critical buildings for society are being run as efficiently as possible,” Butt says in a release. “Groundbreaking tech solutions, such as FLUIX AI, can dramatically help to slash energy,

operational costs and in turn carbon emissions — and the scale of the opportunity is truly global.”

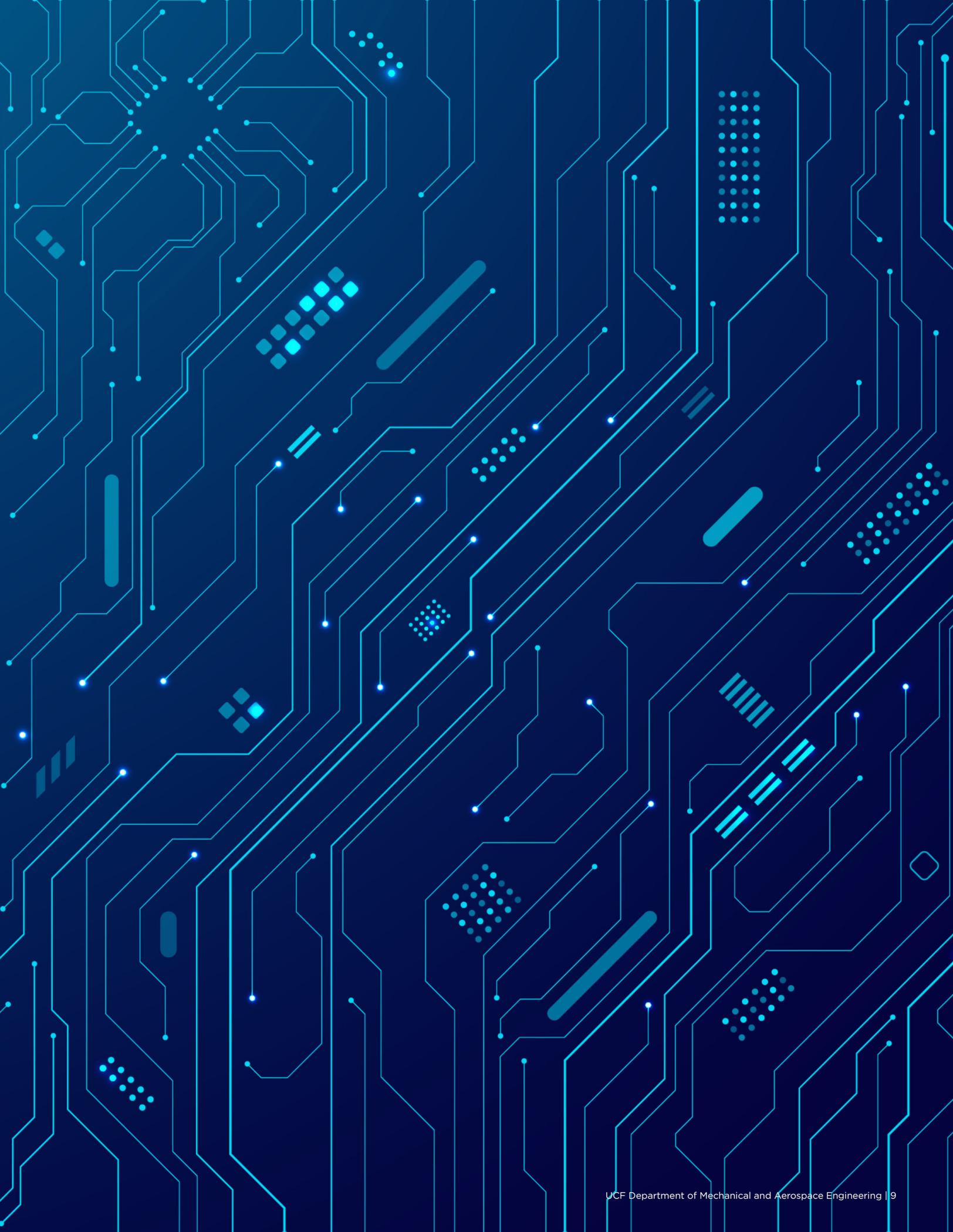
A case study with Santa Cruz Works has proven FLUIX’s success. The agency demonstrated a 40% reduction in energy use in a server room over six months. That’s a huge win for energy hungry data centers, where the cooling systems alone often account for a large chunk of the energy bill.

This technology is not just theoretical. FLUIX’ AI is already in action with early client colocation groups in Latin America, Central Florida, Tennessee and Utah.

“We are thrilled to partner with FLUIX to leverage their innovative solutions for driving energy efficiency in our data center operations,” says Ed Nuckols, the chief operating officer of Colo Solutions, in a release. “This collaboration reflects our commitment to sustainability and cutting-edge technology, enabling us to deliver even greater value to our clients while reducing our environmental footprint.”

Written by Madelyn Sutterfield

To learn more about FLUIX, visit bit.ly/41R7IT0.



Partners in Education

UCF Leads \$5M Consortium to Train Nuclear Engineers

UCF has continuously been recognized as a top supplier of graduates to the aerospace and defense industries, and two UCF professors plan to solidify that reputation through a new national consortium.

Professors Subith Vasu and Jayanta Kapat are leading a \$5 million grant from the U.S. Department of Energy's National Nuclear Security Administration (NNSA) to establish a consortium that will support students from underrepresented communities who are interested in earning engineering degrees.

The PARTnership and Training for NNSA Engineering and Relevant Sciences (PARTNERS) consortium will include the University of California, Irvine and the Florida Agricultural and Mechanical University (FAMU). Sandia National Laboratory, Lawrence Livermore National Laboratory and Los Alamos National Laboratory will collaborate and support students and faculty.

The goal of PARTNERS is to provide a training ground and talent pipeline for the next generation of nuclear engineers.

"The U.S. has a nuclear stockpile and the NNSA is responsible for the safe maintenance and modernization of that stockpile," Vasu says. "This particular opportunity allows us to conduct research and train students. The hope is that, after graduation, these students will get a job offer from the NNSA or related industries."

This is the second NNSA consortium that UCF has joined under Vasu's leadership. In 2023, the university entered a \$25-million, national consortium on nuclear forensics that was directed by the University of Florida.

Justin Urso '15 '22PhD, a co-principal investigator (PI) on the grant, says this new consortium, led by UCF this time, will augment the work already completed by the group of universities and national labs. On the research side, students and faculty will continue to work on projects that

can predict and assess the damage from nuclear events and assist with nuclear forensics.

Students will have the opportunity to work on these projects, but they also have the chance to intern at one of the national labs in the consortium. They will be paired with a mentor and will continue to develop their research skills and train for a career in nuclear engineering under their guidance.

"The current nuclear engineering workforce is retiring but also the world is changing," Vasu says. "The U.S. is the world police, and we need to make sure that nuclear weapons are only with responsible countries. The threats against the U.S. are also changing. Our enemies have newer, more sophisticated weapons."

Written by Marisa Ramiccio

To learn about our \$25 million nuclear engineering consortium, visit bit.ly/3JoU17C.





SAVING SOLAR ENERGY

Researcher Earns \$3.8M Grant for Solar Energy Storage System

Solar energy may be abundant in the hot and muggy climate of Florida, but it can be intermittent during inclement weather and inconsistent during the night or peak usage.

To keep the power grid reliable, UCF Department of Mechanical and Aerospace Engineering Associate Professor Like Li is developing a novel energy storage system that can reserve solar energy for future use. The project is supported through a three-year, \$3.8 million grant from the U.S. Department of Energy Solar Energy Technologies Office.

“The goal is to contribute to the global transition to clean energy and to achieve net zero carbon emissions by 2050,” Li says. “In order to meet that goal, there is a lot of effort to use renewable energy for the decarbonization of the power grid and various industrial processes.”

Li will work with engineers from Sandia National Laboratories, Oregon State University, the University of Houston and Redoxblox, a startup that specializes in low emission energy storage units. Together, they will develop a thermochemical energy

storage (TCES) system, which uses chemical reactions to either absorb or release heat for the respective charging and discharging steps.

The high temperature heat for the charging step will be from the concentrating solar-thermal power (CSP). It can also be charged by electric furnaces powered by any type of renewable energy such as solar panels or wind power. A TCES system can store a large amount of energy at very high temperatures for less money, making it advantageous. The high temperature heat released during discharging can be used to drive high-efficiency power cycles or as process heat for a wide range of industrial processes.

Li and his team have been using computational modeling and lab-scale reactor testing to design a solar receiver and chemical reactor. Once the parts are fabricated, they will conduct demos at Sandia using sunlight and a solar furnace.

“These demos are important because the technology is new,” Li says. “Most TCES reactors are at lab scales, our goal is to demonstrate an integrated TCES system coupled with

CSP under real conditions.”

The demos are also important to the postdocs and graduate students in Li’s lab, who will have the opportunity to travel to Sandia to assist with the testing. He says this is a great chance for them to work with industry professionals, gain research experience and potentially find future job opportunities.

The work can also benefit companies in Orlando that have a vested interest in thermal energy storage, such as Siemens or Duke Energy.

“Now is a crucial time in history to redefine a cost-effective energy storage system to achieve energy decarbonization,” Li says. “If we can demonstrate that capability, we can apply our research and demos and attract attention that can lead to fruitful collaborations in the future, especially when we start to scale up those energy storage systems.”

Written by Marisa Ramiccio

To learn more about Li’s research, visit bit.ly/4mdTvXv.





POWERING FREIGHT FORWARD

UCF Researcher to Develop Hydrogen Combustion Engine for Commercial Vehicles

More than 70% of the nation's freight is transported by large commercial trucks. While ground transportation may be a popular choice for delivery, it isn't the cleanest. According to the U.S. Environmental Protection Agency, medium- and heavy-duty vehicles such as tractor-trailers, buses and vocational vehicles are the largest mobile source of nitrogen oxide (NOx) emissions. NOx is known for creating smog, carbon monoxide and other toxins.

However, an environmentally friendly solution may emerge within the next decade with the help of a UCF researcher.

Engineering Professor Subith Vasu is working with commercial truck manufacturer PACCAR, owner of the Peterbilt and Kenworth brands, to create a hydrogen-based combustion engine for heavy-duty vehicles. The project is funded through a \$3.5 million grant from the U.S. Department of Energy and is the agency's first effort to develop hydrogen combustion engines for commercial trucks.

"We're fortunate to be part of

this project," Vasu says. "It's a very prestigious effort for UCF, to be part of this project that's highly relevant in the decarbonization of transportation efforts around the globe. It will also be a great opportunity for students to get involved with an industry-funded project."

For decades, diesel has been the fuel of choice for large commercial vehicles. But in recent years, the government has pushed for a cleaner alternative. In 2021, President Biden appropriated \$62 billion to the DoE, including \$9.5 billion for clean hydrogen solutions as part of the Bipartisan Infrastructure Bill. Over this past year, the Environmental Protection Agency also tightened its NOx emissions standards for heavy-duty commercial vehicles beginning with 2027 model year equipment.

While Tesla has developed a semi-truck that runs on electric motors, Vasu says there are some limits to the weight it holds and the distance it can travel.

"Tesla is developing electric supercars and semi-trucks, but there are limits to the batteries," Vasu says. "They're fine for driving down to the

nearest town but driving from Seattle to Miami, you need significant battery power, also you don't have time to wait until it is fully charged since most of these freightliners are under time pressure."

Hydrogen can solve the problem of a longer-lasting battery, but PACCAR currently has more questions than answers. How will hydrogen behave in the extreme temperature and pressure of an engine? Under what conditions will it ignite? Alternatively, what conditions will prevent ignition?

Vasu and his team of researchers will find these answers through experiments run in their state-of-the-art shock tube. The data collected will be used to create computational models to share with PACCAR.

*Written by Marisa Ramiccio
Photo by Antoine Hart*

To learn more about Vasu's research, visit bit.ly/4gj7fyS.

FOUR

Applying for a prestigious fellowship is akin to playing the lottery — many will enter, but few will win. This year, four graduate students from the UCF Department of Mechanical and Aerospace Engineering hit the jackpot. One was selected for the Department of Defense (DoD) National Defense Science and Engineering and Graduate (NDSEG) Fellowship while three others were awarded the DoD SMART Scholarship. Both opportunities cover the cost of tuition and provide summer internships and industry fellowships. Read on to learn more about our recipients.



Chance Brewer '20
Ph.D. in Mechanical Engineering

DOD SMART SCHOLARSHIP

Through his work in the Putnam Lab, managed by Shawn Putnam, mechanical engineering associate professor, Brewer has had the chance to collaborate on research projects sponsored by the Air Force Research Laboratory (AFRL).

As a DOD SMART scholar, Brewer will rejoin the AFRL team to work on research related to his expertise.

“My academic research on multifunctional materials in thermal management systems is already closely tied with the work I will be doing with AFRL, but the challenges and applications I am targeting will shift to focus on thermal control for space vehicles,” Brewer says. “Over the past two summers I have worked with the same team that I will be working with for SMART, so I am already very familiar with the community that I will be joining after I graduate, and I feel very fortunate to be joining such a great team.”



Gabriel Duany '25
P.h.D in Aerospace Engineering



Lucas Pitts '24
P.h.D in Aerospace Engineering



Aaron Guenther '25
Ph.D. in Mechanical Engineering

NDSEG FELLOWSHIP

This year, Duany will begin a new degree program in a familiar place — Vasu’s lab. His research project will involve applying laser and optical spectroscopy to study the complicated heat and airflow effects associated with high-speed flights and missile defense. Duany says he looks forward to working with his advisor again.

As a budding engineer who hopes to make an impact on the world someday, Duany says the NDSEG fellowship will help him grow as a researcher and expand his network of industry contacts. He credits UCF for helping him earn this opportunity.

“I went to UCF because it is closely connected to the aerospace industry,” Duany says. “I did a lot of research in undergrad here, which gave me the experience I needed to land this fellowship.”

NDSEG FELLOWSHIP

Like Duany, Pitts views the NDSEG fellowship as an opportunity to grow as a researcher. His career goal is to return to academia as an instructor and researcher, teaching and mentoring the next generation of engineers.

He says this fellowship will help him build the technical expertise, research experience and professional network that will help him achieve his goal.

“Beyond honing my technical skills, I am excited to connect with other researchers at conferences to gain feedback on my work and learn about what others are doing,” Pitts says. “Engaging with the broader research community will help me better understand how my work fits into larger challenges and grow both professionally and personally.”

NDSEG FELLOWSHIP

Guenther is one of three students from Professor Subith Vasu’s lab who were selected for the NDSEG fellowship this year. Vasu is involved in U.S. aerospace and defense research, making it an easy choice for the students to apply for this opportunity.

“The NDSEG fellowship is awarded to students who propose research projects that align directly with the interests of the Department of Defense,” Guenther says. “Our research group is heavily involved with defense projects, so I thought that the availability of knowledge and resources would allow me to submit a strong application.”

To read the full stories
on all of our fellows,
visit mae.ucf.edu/more-news.



Making Powerful Magnets

Researcher Uses NSF CAREER Award to Manufacture Rare Earth Permanent Magnets

Rare earth permanent magnets (REPMs) — composed of alloys containing rare-earth elements — are the strongest permanent magnets with numerous applications across aerospace, automotive, electronics, medical devices and renewable energy industries due to their exceptional magnetic properties.

REPMs generate strong magnetic fields through aligned atomic structures, attracting ferromagnetic materials by inducing a magnetic field, enabling them to lift heavy loads, power motors and generate energy in various technologies.

Despite their widespread use, current REPMs manufacturing techniques are energy intensive, complex and struggle to fabricate magnets with intricate shapes and minimal defects.

That's where Wen Shen, assistant professor of mechanical and aerospace engineering at UCF, comes in. Her National Science Foundation CAREER project aims to develop a new hydrogel-based additive

manufacturing process that fabricates high-quality REPMs more efficiently.

The new fabrication process, which uses 3D printing and decomposition of hydrogels containing rare-earth elements, has tremendous potential, Shen says.

"This research will enable an energy-efficient and laser-free additive manufacturing process that fabricates REPMs with near-zero defects as well as excellent magnetic and mechanical properties," she says. "If successful, the outcome of this research will significantly impact the global REPMs market."

Shen says she's honored to be an NSF CAREER award recipient and continues to elevate her impactful research.

"The CAREER award allows me to conduct in-depth studies," she says. "It fits well into my career, allowing me to advance my goals as both a researcher and educator while fostering impactful contributions to academia and industry."

UCF encourages state-of-the-art research through its resources,

educational opportunities and collaborative environment. Shen says that she and her colleagues are grateful for the vast availability of university-wide support that helps advance their research and allows faculty to thrive.

"The fellowships as well as the research facilities and infrastructure provided by the MAE department, CECS [the College of Engineering and Computer Science] and NSTC [NanoScience Technology Center] to my group allowed me to conduct unique and transformative research that can make potential societal impacts," Shen says. "I would like to acknowledge my department chair, the CECS dean, [and] the NSTC director, who have been very supportive of my research since I joined UCF."

Written by Eddy Duryea

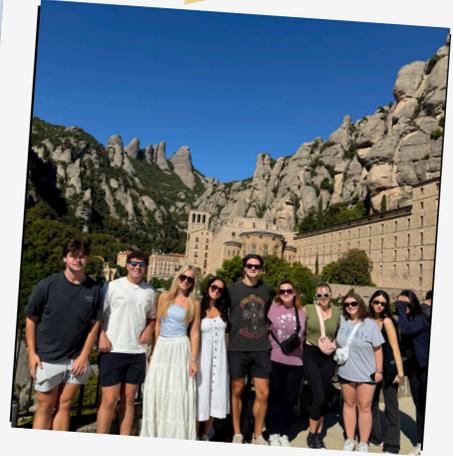
To learn more about Shen's research, visit bit.ly/41HDz8u.

Bound for Barcelona

Spending a few weeks of the summer in Barcelona sounds like a dream come true — especially when you can earn college credit in the process. Several aerospace engineering students from the College of Engineering and Computer Science made that dream come true by participating in UCF's study abroad program in Barcelona. This is the first year that the college has participated in the program, with future trips anticipated for the coming years. Students spent the summer learning about engineering, but also immersed themselves in the culture through guided tours and cooking classes.



Exploring the culture through cooking classes



Visiting the Montserrat mountain range



Academic Programs International welcomes the Knights to Barcelona



Touring the Basilica de la Sagrada Familia





Relaxing at the Estrella Damm Brewery



Spending a day at the Basilica de la Sagrada Família



Aerospace engineering students in the Solid Mechanics class



Viewing the Gaudi architecture from Park Guell





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Mechanical Engineering

Master of Science in
Aerospace Engineering

Master of Science in
Biomedical Engineering

DOCTORAL PROGRAMS

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Engineering

Ph.D. in Aerospace
Engineering

Ph.D. in Biomedical
Engineering

