



# Annual Report

## 2019

# MISSION

The University of Alabama in Huntsville is a research-intensive, internationally recognized technological university serving Alabama and beyond. Our mission is to explore, discover, create, and communicate knowledge, while educating individuals in leadership, innovation, critical thinking, and civic responsibility and inspiring a passion for learning.

# VISION

The University of Alabama in Huntsville will be a preeminent, comprehensive, technological research-intensive university known for inspiring and instilling the spirit of discovery, the ability to solve complex problems, and a passion for improving the human condition – a university of choice where technology and human understanding converge.

# CORE VALUES

## ***Integrity and Respect***

We are guided by principles of ethics, treat others with deferential regard, and are civil in our interactions.

## ***Diligence and Excellence***

We work hard and are tireless in the pursuit of our goals and achieving outcomes of the highest quality.

## ***Inclusiveness and Diversity***

We honor the individual. We celebrate differences and use them to create unity.



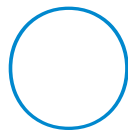




# PRESIDENT'S MESSAGE







ne of the most notable characteristics that I observed upon my arrival at UAH last summer was how closely the university was aligned with the community's academic and research needs. It has truly been a pleasure to work with civic, government, military, and corporate leaders in the region to advance the welfare of our local, national and global community.

As one of the most dynamic metropolitan areas in the United States, the Huntsville/Madison County region is rapidly changing and expanding in every aspect of our society, including economics, education, culture and health care. Meanwhile, the technological changes taking place among the federal agencies at Redstone Arsenal and the robust corporate presence in Cummings Research Park continue to play vital roles as the challenges facing our nation increase in complexity and reach. UAH is an important partner with these public and private innovators and our institution provides current leadership as well as future leaders in this transformational process.

UAH is a tremendous asset for our community, the State of Alabama and the nation. You will see evidence of the university's impact throughout this publication. Specifically, UAH has become a center for intellectual development through the active recruitment of top-quality students, the presence of dedicated and highly productive faculty, experiential learning possibilities through internships and cooperative education, and research opportunities for both graduate and undergraduate students.

UAH's reputation for supplying solutions through knowledge is well known and respected. Our faculty and researchers have decades of experience in overcoming technological challenges that are specific to many of the federal agencies protecting our nation from internal and external threats. UAH exploration starts on our planet's surface and reaches out all the way into interplanetary space.

This is an exciting time for UAH, the City of Huntsville and the north Alabama technology corridor. We believe the best days for UAH are yet to come. It is with that confidence in the future that we will continue to shape the university into a campus **Where We Expand Horizons.**

Darren Dawson  
*President*





# BY THE NUMBERS

## University Community

**9,988**

STUDENTS

**389**

FULL-TIME FACULTY

**494**

RESEARCH STAFF

**43K+**

ALUMNI

## Incoming Freshman Class – Fall 2019

**28.4**

AVERAGE ACT

**3.91**

AVERAGE HS GPA

**1,497**

LARGEST FRESHMAN CLASS IN HISTORY

## Graduates

**1,919**

DEGREES AWARDED  
IN AY 18–19

**52**

CERTIFICATES AWARDED  
IN AY 18–19

**45%**

OF DEGREES AWARDED  
ARE IN STEM SUBJECTS

**#1 ROI**

IN THE STATE FOR BOTH IN-STATE  
AND OUT-OF-STATE STUDENTS

–Payscale



## Research

# #11

IN NASA-FUNDED  
RESEARCH EXPENDITURES

# #28

IN DOD-FUNDED  
RESEARCH EXPENDITURES

### National rankings for federally-funded research expenditures

**#5** AEROSPACE ENGINEERING

**#8** ECONOMICS

**#11** COMPUTER AND INFORMATION SCIENCES

**#12** ATMOSPHERIC SCIENCE

**#12** ASTRONOMY AND ASTROPHYSICS

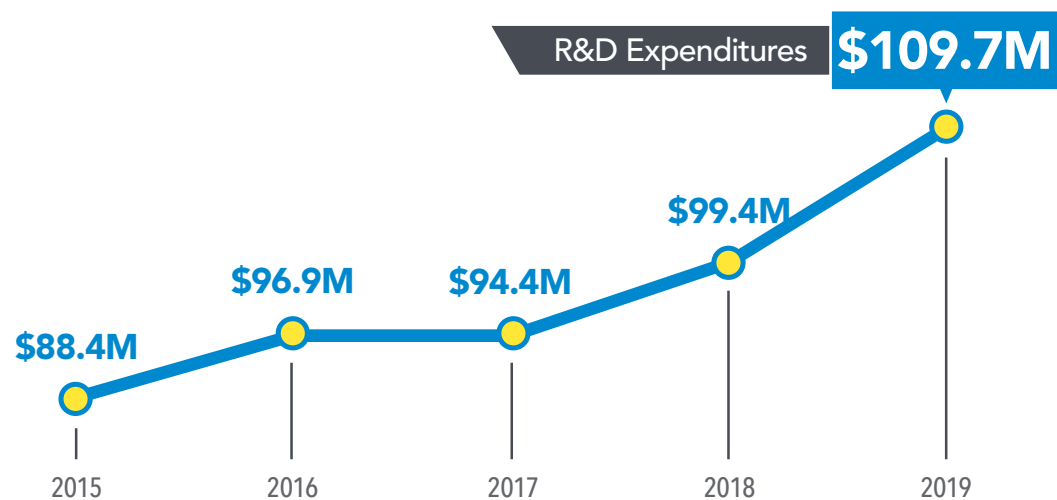
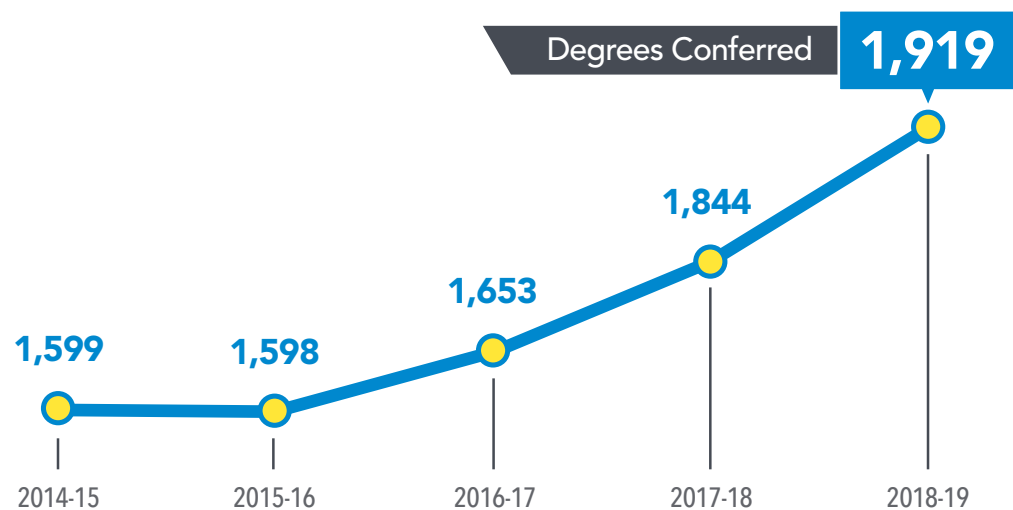
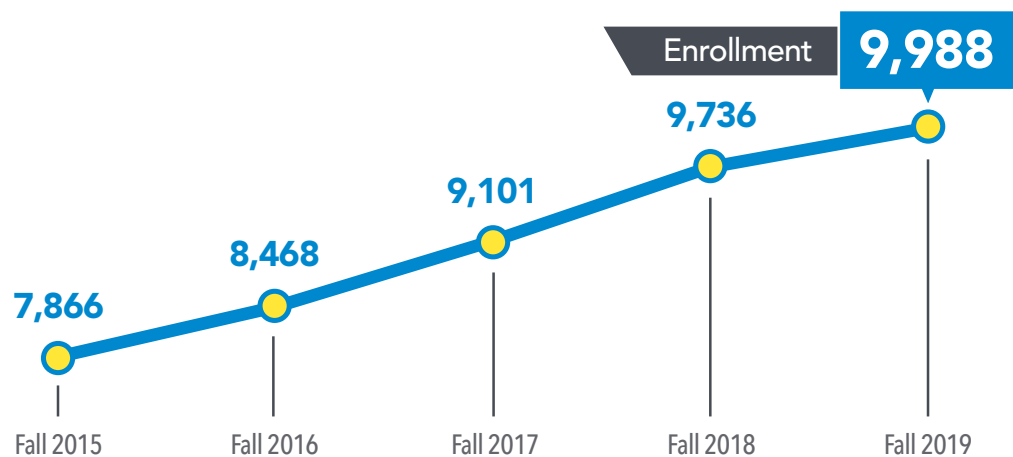




# GROWTH











# WHERE WE EXPAND HORIZONS

To unlock the creativity and thought leadership that the future demands, UAH is the place to spark the development of intellectual curiosity at all ages and all stages. At any phase in their scholastic careers, students are welcomed by the university to engage in its innovative educational and research opportunities. UAH provides career learning support that includes professional development, certification and customized training. The university is a vital vessel for lifelong educational encouragement and outreach from early childhood through career and retirement.



### K-12

- ▶ Alabama Math, Science, and Technology Initiative Host University
- ▶ Systems Management and Production Center – STEM Help Outreach Program
- ▶ Let's Pretend Hospital
- ▶ National Girl Scouts USA Cybersecurity Challenge
- ▶ GenCyber Camps
- ▶ Tech Trek
- ▶ Creating Entrepreneurial Opportunities program
- ▶ College Academy



### Undergraduate and Graduate Studies

- ▶ College of Arts, Humanities, and Social Sciences
- ▶ College of Business
- ▶ College of Education
- ▶ College of Engineering
- ▶ College of Nursing
- ▶ College of Professional and Continuing Studies
- ▶ College of Science
- ▶ Graduate School
- ▶ Honors College

## The UAH Education Continuum



### Early Learning

- ▶ UAH RISE School
- ▶ Office of School Readiness
- ▶ 4-Year-Old Grant Classrooms
- ▶ Early Head Start Classrooms
- ▶ Head Start Classrooms



### Community College

- ▶ Pathways
- ▶ Visiting Student Program
- ▶ Shadowing Summer
- ▶ Community of Scholars



### Professional and Continuing Studies

- ▶ Professional Development Solutions – Certificates, Short Courses and Customized Training
- ▶ Osher Lifelong Learning Institute





# ACADEMICS

With over 100 areas of study across nine colleges, in addition to 17 different research centers and institutes, UAH has educational opportunities to fit every need. Education begins in the classroom, but it never stops there. Our students test their knowledge through research and apply it in internships and co-ops with an array of business and industry partners. That experiential approach to education gives our undergraduate and graduate students the career-ready skills they need to thrive.

## CYBERSECURITY DEGREE PROGRAM

The Department of Electrical and Computer Engineering and UAH's Center for Cybersecurity Research and Education have launched a new Bachelor of Science in Cybersecurity Engineering program. This highly technical cybersecurity undergraduate degree prepares graduates for a career in cybersecurity engineering, secure software development, cybersecurity test and evaluation, offensive security, systems architecture, reverse engineering and/or emerging cybersecurity problem-solving. Those who would like to pursue an advanced degree in the field and/or who are participants in UAH's Joint Undergraduate Master's Program can enroll in the university's Master of Science in Cybersecurity program. The two degree programs are designed to help address the growing demand for cybersecurity experts.

## HONORARY FACULTY FELLOW

David A. Chan left Huntsville at age 16 to pursue his undergraduate and graduate degrees from MIT, then enjoyed a successful career as a Silicon Valley executive. Now back in Huntsville, Chan has accepted an appointment as the first Honorary Faculty Fellow at the Honors College and will be putting his expertise in the field to use outside the classroom with UAH's business incubator, the Invention to Innovation Center. He will teach a course on "Rapid Prototyping with Raspberry Pi," which targets those who may not have a hardware or programming background but would like to use single-board computers for prototyping or control projects.

## STUDENT SUCCESS CENTER

UAH's Student Success Center (SSC) offers academic support programs that empower individuals. Collaborating with faculty, staff and students, the SSC develops and enhances programs, resources and services to boost student success. The SSC consists of Academic Coaching, the Tutoring & Writing Program and Peer Assisted Study Sessions (PASS). Academic Coaching focuses on academic and self-management skills. The Tutoring Program provides one-on-one and small group academic assistance. The Writing Program helps students become more confident and successful writers through peer consultations. The PASS program provides peer-led group review sessions for select courses where students compare notes, discuss important concepts and develop effective study strategies.

**100+**  
AREAS OF STUDY

**9**  
COLLEGES

**88**  
DEGREES

**1,000+**  
HONORS COLLEGE  
STUDENTS





# RESEARCH

Launched from America's quest to conquer space, UAH has robust research capabilities in astrophysics, cybersecurity, data analytics, logistics and supply chain management, optical systems and engineering, reliability and failure analysis, rotorcraft and unmanned systems, severe weather, space propulsion and more. Faculty, staff and students conduct research with NASA's Marshall Space Flight Center, the U.S. Army, the Missile Defense Agency, the Defense Intelligence Agency, the Federal Bureau of Investigation, the National Science Foundation, the National Oceanic and Atmospheric Administration, the Department of Energy, the National Institutes of Health and other governmental and business partners.

**5 PROGRAMS**  
RANKED IN THE  
**TOP 20**  
**NATIONALLY**

—NSF HERD survey

**\$110M**

RECORD HIGH ANNUAL  
R&D EXPENDITURES

**90+**

CORPORATE RESEARCH  
PARTNERSHIPS

## PARKER SOLAR PROBE

Scientists want to learn why the atmosphere of the sun is much hotter than its surface. UAH's Center for Space Plasma and Aeronomic Research (CSPAR) has a major role in NASA's historic Parker Solar Probe (PSP) mission. PSP orbits closer to the sun than any spacecraft ever, and the first research from it has been published. UAH receives massive data flows from a PSP instrument suite called Solar Wind Electrons Alphas and Protons (SWEAP). SWEAP includes a Faraday cup designed, created and tested by a partnership between UAH, NASA's Marshall Space Flight Center and the Smithsonian Astrophysical Observatory to sample solar wind while fully exposed.

## DRONE SAFETY

UAH's Rotorcraft Systems Engineering and Simulation Center (RSESC) examined the risks of serious injury from flying small unmanned aircraft over people, resulting in the Federal Aviation Administration (FAA) "UAS Center of Excellence Ground Collision Severity Report." It lays the foundation for an alternate means of compliance to the Note of Proposed Rulemaking for drone flights over people. RSESC Director David Arterburn was selected as associate director of the Alliance for System Safety of UAS through Research Excellence (ASSURE). He will become the liaison to the U.S. Department of Defense UAS Science and Research Panel, which coordinates research vision and policy across federal stakeholders.

## HYPERSONICS

Hypersonic missiles fly at speeds greatly exceeding the speed of sound and can change flight trajectory to avoid detection or interception. The UAH Research Institute is helping the U.S. catch up in hypersonic research with its unique facilities and expertise. UAH's Aerophysics Research Center, operating from the Aerophysics Research Facility on Redstone Arsenal, provides the government and commercial clients with hypersonic scaled testing via three two-stage light gas gun systems. In the future, UAH will help construct a center on Redstone Arsenal's Space and Missile Defense Command campus to perform hardware-in-the-loop simulation of hypersonics.



# UNDERGRADUATE STUDIES

Undergraduate programs at UAH provide an exceptional educational experience through high-quality academic programs, academic support services and unique state-of-the-art research and creative opportunities that prepare students to function effectively in a global society.

## SPACE HARDWARE CLUB

One of the largest student organizations on campus, the UAH Space Hardware Club has a long history of tackling new and exciting projects that allow students to test theory from the classroom in a real-world setting. Current and past projects include BalloonSAT, CanSAT, CubeSAT, high energy lightning emissions and others. This student-run organization is conducting tests for an ambitious liquid propellant rocket. The rocket is fueled by nitrous oxide and ethane, which are propellants with high vapor pressure and similar pressure-temperature curves. The SHC hopes its vehicle will launch at the 2021 Spaceport America Cup competition for student rocketry teams in southern New Mexico.

## ART STUDENTS WIN POSTER CONTEST

Four undergraduate students from the Department of Art, Art History and Design won awards in the 53rd annual National Career Development Association Poetry and Poster Contest. Marina Gibson, Emma Kratt and Allissa Allen won first, second and third place, respectively, in the mixed media group (use of photos, clip art, graphic art software, collage, cut and pasted paper and mixed media), while Jacqueline Pichette won first place in the hand-illustration category (standard use of ink, pencil, poster paints, magic marker, acrylics and oils).

## NURSING STUDENTS GAIN EXPERIENCE

Clinical simulations are integral to the undergraduate curriculum in the College of Nursing. Most take place in the college's Learning and Technology Resource Center. Due to the high-stakes nature of the surgical environment for patients, it's not often possible for students to function independently in perioperative nursing roles, but summer students in the perioperative elective got to hone their skills at Decatur Morgan Hospital. They worked in the most realistic experience possible alongside retired general surgeon Dr. Kenneth Chandler as he performed an open appendectomy on a SynDaver surgical model in a safe simulated environment.



# 7,989

UNDERGRADUATE  
ENROLLMENT

# 1,497

LARGEST FRESHMAN  
CLASS IN HISTORY

# 49.5%

HS GPA OF 4.0 OR BETTER

—2019 Freshman class



# GRADUATE STUDIES

Whether continuing on to graduate school directly from an undergraduate program or returning to school to gain greater knowledge for advancement or changing careers, the Graduate School at UAH is here to help students take their academic career to the next level. Our master's and doctoral programs include national leaders in engineering, the sciences, business, nursing, education, arts, humanities and social sciences.

## STUDENTS STUDY JAILHOUSE INFORMANTS

According to the Innocence Project, false testimony from jailhouse informants is one the leading causes of wrongful convictions, and it is the leading cause of wrongful convictions in capital cases. Yet juries often find testimony from informants convincing. A group of UAH psychology graduate students wants to know why. The question is the heart of research conducted by Lexi Mecikalski, Baylee Jenkins and Alexis Le Grand. The trio has co-authored a chapter in "Advances in Psychology and Law" by Dr. Stacy Wetmore, a tenure-track professor at Roanoke College in Salem, Va., who earned her bachelor's and master's degrees at UAH.

## SUPPORT FOR AUTISTIC STUDENTS

How do learners with autism spectrum disorder get the extra support and help they need to be successful in the classroom and beyond? That's the passion of UAH College of Education faculty member Dr. Whitney Meade, a longtime advocate for the special education community who also serves as the director of UAH's Regional Autism Network. Dr. Meade has developed a hands-on course that requires education master's students to create and execute an appropriate and effective learning environment for learners with autism spectrum disorder. The course ensures that graduates have the skills necessary to hit the ground running as they embark on their chosen career path.

## DOCTORAL CANDIDATE EARNS OPPORTUNITY

Ryan Gott, a doctoral candidate in Dr. Gabe Xu's Plasma and Electrodynamics Research Lab at UAH, was awarded a United States Department of Energy (DOE) Office of Science Graduate Student Research Program opportunity at Sandia National Laboratory in Albuquerque, N.M. Gott is researching fundamental plasma science and enabling technologies. He is one of only 70 awardees chosen nationwide from 52 U.S. universities that grant doctoral degrees in physical sciences. The program helps sustain a pipeline for highly skilled scientific and technological workforce development by preparing graduate students for science, technology, engineering or mathematics (STEM) careers critically important to the DOE Office of Science mission.



1,999

GRADUATE  
ENROLLMENT

RANKED A  
"HIGH RESEARCH  
ACTIVITY"  
UNIVERSITY  
—Carnegie Classification

#8

ON THE LIST OF THE  
30 BEST ONLINE MASTER'S  
IN LOGISTICS AND SUPPLY  
CHAIN MANAGEMENT  
—Best College Reviews





# DIVERSITY, EQUITY AND INCLUSION

The Office of Diversity, Equity and Inclusion (ODEI) strengthens diversity at UAH through its commitment to improving social and cultural awareness and encouraging self-understanding through education, training and engagement with others. By offering enriching programs that promote cross-cultural perspectives and create mutual opportunities for exchange, ODEI fosters an inclusive environment for people of all races, ethnicities, cultures, ages, religions, languages, abilities, genders and sexual orientations.

# 28

INCLUSIVE PROGRAMS  
FOR STUDENTS

# 175%

INCREASE IN  
DIVERSITY TRAINING

# 1,059

EMPLOYEES RECEIVED  
TITLE IX TRAINING

## MARTIN LUTHER KING COMMEMORATION

Bob Zellner, the son and grandson of Ku Klux Klan members, provided a diverse perspective. He risked his life – and nearly lost it – many times in the fight to achieve the Second Emancipation. Zellner helped organize The Freedom Rides of 1961 and worked alongside Martin Luther King Jr., John Lewis and Rosa Parks. Zellner shared with an engaged and invested room of faculty, staff, students and community the untold stories of the civil rights movement. He offered insight and advice for those interested in being involved in the current fight for justice and equality.

## #LIVINGOUTLOUD

Inclusivity begins with collaboration! ODEI works with departments across campus to represent students, faculty and the community. #LivingOutLoud pride began this past year when students and members of the LGBTQ+ community came together to share their experiences of coming out and discuss the different ways that everyone can be engaged in supporting the LGBTQ+ community. #LivingOutLoud activities were geared towards educating, uplifting and representing all sexual and gender identities. Many students were not aware of the resources available on and off campus, and #LivingOutLoud provided vital information.

## FUTURE & BEYOND SYMPOSIUM

ODEI partnered this year with 25 sponsors throughout the community to have an open dialogue on the importance of diversity and inclusion within organizations and communities. Richie Parker was the keynote speaker. Richie was born with bilateral amelia, a non-genetic birth defect in which his limbs are not formed. He discussed overcoming obstacles and facing adversity regardless of his abilities. He works with clients such as NASCAR to find creative solutions. Richie Parker helps people with different abilities realize they can have an equitable chance at pursuing their dreams.





# COMMUNITY ENGAGEMENT

**A**s a premier research university, UAH's mission is to "explore, discover, create and communicate knowledge, while educating individuals in leadership, innovation, critical thinking and civic responsibility, and inspiring a passion for learning." Within this mission lies the responsibility to share our strengths in meaningful and beneficial collaborations with the community through outreach and engagement. These activities are a benefit to our faculty, staff, students and the community.





## UAH DISTINGUISHED LECTURE SERIES

The Distinguished Lecture Series brings nationally recognized speakers to Huntsville to enhance collaboration with Redstone Arsenal, Cummings Research Park, the community and students. The goal of the series is to educate, enlighten, challenge, and spark curiosity and to produce creativity and innovation in our community. Speakers have included Gen. Michael Hayden, former CIA and NSA director; James Clapper, former director of National Intelligence; Gen. Martin Dempsey, former chairman of the Joint Chiefs of Staff; Paul Abbate, associate deputy director of the FBI; Robert Ashley, director of the Defense Intelligence Agency; and a Global Climate Debate between climatologists Dr. John Christy of UAH and Dr. Michael Mann of Penn State University.



## APOLLO 11 LANDING ANNIVERSARY

As a university launched from America's quest to conquer space, UAH hosted a week of events and activities July 14-20 to celebrate the 50th anniversary of the historic Apollo 11 landing on the moon. Events and activities included an open house of the M. Louis Salmon Library Special Collections and Archives, a library exhibit "To Land on the Moon: Huntsville and the Apollo Program," tours of Von Braun Research Hall, a radio interview on the topic of collecting space history and a fireworks display on UAH campus. UAH has played a key role in America's space program since Dr. Wernher von Braun, then Marshall Space Flight Center director, helped create its Research Institute in the early 1960s. Since that time UAH has become a leading aerospace engineering research university.



## VOLUNTEER CHARGERS

The Office of Student Life provides numerous ways for our students to serve. Every year, hundreds of individuals volunteer their time and effort on campus, at local non-profit organizations across the city and beyond. These opportunities assist with the development of life skills and prepare students to become successful citizens of the world. Participation in one of UAH's campus-wide annual days of service, such as Helping Hands of Huntsville and The Big Event, is just one way for our students to say "thank you" to the community. Other service projects include collections for local shelters, the Bleed Blue Blood Drive held in conjunction with Homecoming, the Dance Marathon benefitting Children's of Alabama hospital, and Fall and Spring Break Service Trips.



A man with a beard and glasses, wearing a dark suit and a blue tie, is engaged in a conversation with a woman whose back is to the camera. They are in a professional setting, possibly a career fair or networking event, with other people blurred in the background. The man is holding a pen and looking at a document held by the woman.

# WORKFORCE DEVELOPMENT

The Career Center is a comprehensive career services office serving current UAH students and alumni in a variety of career-related areas through counseling and programming. The Center focuses on career development and experiential learning to help students find their niche and gain real-world experience in their careers. It builds relationships with employers to create a pipeline of UAH talent.

## SPACE DAY AT UAH

On the heels of the Von Braun Symposium, the Career Center worked collaboratively to host the inaugural Space Day. The event launched the center's Industry Days series and focused on educating students about opportunities and how to become integrated in the field. Additional events included a variety of career panels within the colleges, networking opportunities through a career fair and speed mentoring. Resume and space commercialization workshops were both hosted by NASA. Over 500 students had the opportunity to learn from high-level executives including a keynote address from Kevin O'Connell, director, Office of Space Commerce, U.S. Department of Commerce.

## STUDENT COMPLETES SHELBY INTERNSHIP

A.J. Brien, a junior political science major at UAH, spent his summer as an intern for U.S. Sen. Richard Shelby (R-Ala.) in the senator's Washington, D.C., office. In addition to attending hearings on behalf of the office and answering constituent phone calls, Brien led numerous constituent tours of the U.S. Capitol and assisted Alabamians with various requests. Participating in the Congressional Internship Program gives students interested in government and public service a unique opportunity to experience the day-to-day workings of Capitol Hill, while learning about our nation's legislative process.

## CAREER SERVICES EARNS AWARDS

The Office of Career Services was selected by the Alabama Association of Colleges and Employers for four state awards for its audiovisual program, a research study, a publication and the outstanding new professional. "It's always refreshing to network with other career centers and employers in Alabama and discuss what's on the horizon for our field," says Coordinator Candace Phillips. "Ultimately, our goal is to learn how we can better serve our students. We've gained knowledge from employers that we can pass on to our students, as well as ideas that will help us improve our programs and offerings in the future."



# \$57.5K

AVERAGE STARTING  
SALARY

# 94%

CAREER OUTCOME  
RATE

# 400+

EMPLOYER VISITS TO  
CAMPUS

# 2,500

JOBS POSTED ON  
CHARGER PATH





# ECONOMIC IMPACT

U AH is an economic catalyst for its region and the State of Alabama. The university's economic impact is measured in many ways: by the expanding number of UAH graduates generating profit for their companies or executing essential federal programs; by the discovery of new knowledge, which drives innovation and the creation of new commercial products and services; by the wages and benefits paid by UAH as Madison County's 10th largest employer, greatly contributing to the local and state tax base; and by attracting new companies and talent, resulting in increased economic opportunity for the region.

# \$475M

ANNUAL ECONOMIC  
IMPACT IN ALABAMA

# 73%

UAH GRADUATES  
LIVE IN ALABAMA

# 48

INVENTION DISCLOSURES  
SUBMITTED IN FY 19

## INVENTION TO INNOVATION CENTER

UAH's Invention to Innovation Center (I<sup>2</sup>C) is a regional initiative that fosters entrepreneurship and accelerates the growth of technology-based ventures through incubation, co-working, mentorship, funding and strategic support. In partnership with the U.S. Department of Commerce (Economic Development Administration) and the State of Alabama and with support from sponsors and corporate partners such as Intuitive Research and Technology, Maynard Cooper, Warren Averett, Redstone Federal Credit Union, Amazon, Google, HubSpot and others, the I<sup>2</sup>C is home to 20 startups representing over 70 percent occupancy of the incubation space in a short span of eight months. I<sup>2</sup>C companies span a broad range of technology and market verticals including defense, government, finance, education, B2B and B2C, app development, enterprise software, cybersecurity and others, by leveraging UAH faculty expertise, student talent, facilities, labs and equipment to accelerate and lead new venture creation across the North Alabama region.

## CENTER FOR MANAGEMENT AND ECONOMIC RESEARCH

The Center for Management and Economic Research (CMER) works in conjunction with the UAH College of Business to assist organizations through applied research and professional business services. CMER provides customized sustainable solutions and offers training and implementation in the areas of strategic planning, lean enterprise and Six Sigma, sustainable and advanced manufacturing, innovation and growth, and economic impact studies. From 2013-2019, through its partnership with the Alabama Technology Network and the National Institute of Standards and Technology Manufacturing Extension Partnership, CMER has client-reported impacts of over \$67 million in new or retained sales, over 600 new or retained jobs, over \$12 million in cost savings and over \$9 million in investments in capital, workforce and technology.

## OFFICE FOR OPERATIONAL EXCELLENCE

Part of UAH's Research Institute, the Office for Operational Excellence (OOE) provides expertise in mapping, analyzing and improving processes and supply chains within the Department of Defense, NASA and the private sector. Industry knowledge and experience include manufacturing, advanced technologies, aerospace and defense, and healthcare. The full-time, non-academic OOE staff maintains the flexibility to work alongside multiple organizations as a non-competitive partner in resolving challenges at all levels of the organization and enterprise supply chain. Additionally, the OOE team has direct interface with academic faculty, graduate and undergraduate students and other independent research centers, further enabling the application and transfer of research, and solutions to its customers, the state and the nation.



A photograph of two men sitting at a table, signing a document. The man on the left is bald with glasses, wearing a suit and tie. The man on the right has grey hair and is wearing a white shirt. They are both smiling. In the background, there is a banner with the UAH logo and the words 'UNIVERSITY OF ALABAMA' and 'HUMANITIES'.

# GLOBAL IMPACT

As part of its mission to promote global education and understanding, UAH reaches out to form international connections and partnerships with other educational institutions, businesses and individuals. Likewise, the university works to create and nurture greater connectivity between our local region and the broader world. In these important roles it serves to knit together its community with cultures and opportunities beyond its borders.

## COOPERATIVE ENDEAVORS

UAH and the Université d'Évry-Val-d'Essoane (UEVE), a member institution of the Université Paris-Saclay, signed a memorandum of understanding in Paris to codify their commitment to developing mutually beneficial academic programs for both institutions. The MOU provides a blueprint for an exchange of faculty members, graduate and undergraduate students, and other personnel for study, research and internships; an exchange of scholars to participate in lectures, tutorials, seminars, conferences, colloquia and symposia; a collaborative approach to research activities, publications and technical training; and advance notice of scientific and educational events, such as conferences and seminars.

## JAPANESE SUPPLEMENTARY SCHOOL

For 10 of its nearly 40 years, The Huntsville Japanese Supplementary School (JSS) has been meeting on UAH campus. Established in North Alabama, the JSS is designed for students in the first through ninth grades. Its purpose is to teach Japanese language and mathematics to children of Japanese employees who have been transferred to North Alabama on a non-permanent basis. When returning to Japan, students can easily re-adapt to the educational system in that country. Because it is crucial for Japanese children to cling to as many of the country's traditions as possible, some Japanese traditions are being shared with the North Alabama community.

## 70<sup>TH</sup> ANNUAL IAC

In coordination with the Huntsville/Madison County Chamber of Commerce, UAH greeted attendees at the International Aeronautical Congress (IAC) in Washington, D.C., along with five other local companies. The outreach mission was to share information about UAH and some of the advantages The Rocket City offers to companies interested in locating here. UAH faculty and students presented at the conference. Huntsville was the only community to participate among the 170-plus corporate, state and national exhibitors at the Congress. The IAC is attended by agency heads and senior executives of the world's space agencies. Vice President Mike Pence welcomed them on the opening day.







# CAMPUS INFRASTRUCTURE

U AH's infrastructure provides a safe and nurturing educational environment where technology and human understanding converge. It evolves, improves and grows to enhance the university community's ability to solve complex problems and develop a passion for improving the human condition. It serves UAH's mission of educating individuals in leadership, innovation, critical thinking, and civic responsibility and inspiring a passion for learning.





## INVENTION TO INNOVATION CENTER

A ribbon-cutting ceremony led by Gov. Kay Ivey for the Invention to Innovation Center (I²C) at UAH was held on June 10, 2019. The I²C space combines three interconnected elements: shared workspace, co-working community and collaborative co-creation. The three-story, 46,650-square-foot building is adjacent to UAH's College of Business building with direct access provided on the second and third floors. The first floor contains approximately 15,000 square feet of prime flexible co-working, events and community engagement space. The second and third floors total approximately 30,000 square feet of plug-and-play incubation office space. Common spaces include conference and meeting rooms, classrooms and a lobby.



## MORTON HALL

Morton Hall, the first major building constructed on campus, is undergoing an extensive renovation and expansion. Housing the College of Arts, Humanities and Social Sciences, almost every freshman attends classes within this building. The addition includes classrooms, lecture halls, an enlarged black box theater, study spaces and other amenities for students, and brings the total building size to approximately 108,000 square feet. The combined building will be "L" shaped, create a quad, framed by Frank Franz Hall and this facility, and will be the terminus of the Greenway for pedestrian travel on the north end of campus.



## FINANCE LAB

The College of Business at UAH hosted a ribbon-cutting ceremony in April 2019 for a brand-new finance lab, which is located on the first floor of the Business Administration Building and includes several standing stations and monitors displaying real-time stock market data. Students use the lab's technology to conduct fundamental research about the economy, industries and companies. The lab gives students hands-on experience, including the opportunity to buy real stocks and bonds for three investment funds. UAH students will manage a total of more than \$1 million in market investments through the TVA Investment Challenge, the Durkee Fund and the Chan Investment Fund.



# ATHLETICS



Photo credit: Chuck Edgeworth

## BASKETBALL

The 2018-2019 UAH men's basketball team finished second in the Gulf South Conference (GSC) and advanced to its 8th NCAA tournament in the last 10 years.

## CROSS COUNTRY

The 2019 UAH men's cross country team won the GSC Championship, the NCAA South Regional Championship and finished in the top 20 at the National Meet, the highest finish in program history.

## LACROSSE

The 2019 UAH women's lacrosse team captured its first ever GSC Tournament championship, defeating Young Harris 15-11 in the final.

## SOFTBALL

The 2019 UAH softball team advanced to its 17th straight NCAA Tournament.

## VOLLEYBALL

The 2019 UAH volleyball team won a program best 14 GSC matches and qualified for the NCAA Tournament for the first time since 2005.



Photo credit: Chuck Edgeworth





# ALUMNI

A mong UAH's more than 43,000 alumni are astronauts, scientists, professional athletes, nurses, educators, entrepreneurs, artists and some of Huntsville's most influential leaders. With their creativity, innovation and determination, our alumni are supporting UAH's mission of leadership in research, scholarship and creative achievement and are shaping the future of our community and the world.





## LEGACY SCHOLARSHIP/ STUDENT AWARD

Created over 40 years ago, the UAH Alumni Association served as a 501(c)(3) organization initially structured as a dues-paying membership model with fundraising goals. After a careful review of its mission and purpose, the association's board of directors voted to dissolve its non-profit status to place a renewed focus on building alumni membership and increasing postgraduate involvement. With the change came the opportunity to establish funding that would benefit future Chargers, including UAH's first Endowed Legacy Scholarship and an Endowed Student Leader Award. These dollars will support students in the 2020-2021 fiscal year.



Photo credit: NASA

## LISA WATSON- MORGAN

NASA announced UAH alumna Dr. Lisa Watson-Morgan as its newest program manager for the Human Landing System, which will safely take the first woman and next man to the Moon in 2024. Dr. Watson-Morgan has over 30 years of experience as a NASA engineer and manager and has served as deputy director of the Engineering Directorate at NASA's Marshall Space Flight Center in Huntsville. She has also received numerous honors and awards, including the Exceptional Service Medal in 2001, the Exceptional Achievement Medal in 2010 and the Meritorious Presidential Rank Award in 2018.



Photo credit: UAH Athletics

## JOSH MAGETTE

Good health and tenacity keep Josh Magette ('12, COB, Finance) in the game of professional basketball. "I've always told myself that I will take my career one year at a time," says Magette. "I've been blessed with good health and my body still feels great, so I am hoping to continue my career." Magette signed a one-year, two-way contract with the National Basketball Association (NBA) team Orlando Magic. The former UAH Charger and two-time All-American will split playing time between the NBA G League team, the Lakeland Magic, and the professional team in Orlando.



A group of seven award winners are standing in a row, each holding a clear acrylic award. From left to right: a man in a dark suit and tie, a woman in a black lace dress, a man in a dark suit and glasses, a woman in a black dress, a man in a dark suit, a man in a blue blazer, and a man in a dark suit. In the foreground, a woman with short blonde hair and glasses is seated in a wheelchair, also holding an award. The background is a blue wall with the UAH Alumni Association logo repeated. The text "2019 ALUMNI OF ACHIEVEMENT AWARD WINNERS" is overlaid in large white letters.

# 2019 ALUMNI OF ACHIEVEMENT AWARD WINNERS

The Alumni of Achievement Award is the highest honor bestowed by the UAH Alumni Association. The award recognizes graduates who have distinguished themselves professionally and personally and who exemplify the high standards of UAH. A committee selects the winners from nominations made by alumni, faculty, staff and friends.



### **Valentin “Val” Korman**

**(‘99 MS Physics, ‘07 PhD Optical Science, Engineering)**

“By far, the best parts of my time at the university involved working directly with faculty and students,” says Valentin “Val” Korman.

“Looking back, the learning I received from the coursework and the research experience with faculty was excellent.” Now president and a founder of technology firm K Sciences GP LLC, Korman’s academic studies and research included astrophysics, applied physics, and optical science and engineering. Korman’s firm supports UAH students with cooperative education experiences, internships and research projects.

### **Carey Link (‘08 BA Psychology)**

Carey Link is determined to battle challenges, including cerebral palsy and metastatic breast cancer. “The greatest lesson I learned from my university education is that we must use knowledge to grow as people and be empowered to find our own solutions to problems,” Link says. Link’s 2016 book “Awakening to Holes in the Arc of Sun” was a finalist for The Alabama State Poetry Society’s Book of the Year Award (2016).

### **Denise Rowe (‘17 DNP Nursing)**

Denise S. Rowe began her healthcare career as a radiologic technologist in the Air National Guard at McGuire-Dix-Lakehurst Air Force Base in Burlington County, N.J. An honor graduate of the United States Air Force Air Training Command since 2004, Rowe has worked as a primary care and women’s health nurse practitioner at the Department of Veteran’s Affairs (VA) Southern Nevada Healthcare System in Las Vegas. Rowe received a gold award for patient education and developed a medication tracking system program for geriatric patients. Rowe earned a first-place facility award for the VA Southern Nevada Health Care System.

### **Tasheria Patterson Small (‘11 BA Elementary Education)**

At UAH, Tasheria Patterson Small learned character traits including the value of partnerships and service-learning. “I have developed problem-solving skills that I can apply to my professional and personal life.” A professional development specialist with the Huntsville City School Board, Small has extensive experience providing learning opportunities to teachers, working on intern placements with colleges and universities, establishing a district professional development plan and developing a new teacher induction program.

### **Taso Sofikitis (‘96 BSBA Marketing)**

Part of the team that won the Division II Hockey National Championship in 1996, CEO and President of Maynards Group of Companies Taso Sofikitis says his success comes from hard work and faithfully practicing the Golden Rule. “UAH had a significant impact on my life and my business career. I learned how to manage my time and what it took to work hard both in the classroom and in athletics,” says Sofikitis, a Vancouver, British Columbia, native who attended UAH on an athletic scholarship. “UAH helped me understand the importance of building relationships and being part of a team.”

### **Tim Thornton (‘86 BSE, ‘94 MSE)**

Ten years ago, Tim Thornton was faced with a decision to stay in a key leadership role with his employer or start a new company. “Feeling bold, I agreed to start a new company,” says Thornton. “The rest of the story is history.” Last year nLogic, the firm Thornton started, earned more than \$54 million in revenue. Thornton serves on the UAH Foundation Board of Trustees, the Huntsville Aerospace Marketing Association and others.

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### **2019 Outstanding Young Alumni of Achievement Award Winner**

The Outstanding Young Alumni of Achievement Award was created in 2018 and is presented to a UAH alumnus/alumna who is 40 years of age or younger. The recipient must have shown outstanding achievement in his/her profession or field, demonstrated exemplary service to the community and supported the university in meaningful ways.

### **Xavier Baldwin (‘13 BS Biology/Chemistry)**

Xavier Baldwin graduated cum laude with a Bachelor of Science in biology and chemistry and a minor in mathematics. He is completing a general surgery residency at the University of North Carolina Hospital System. “The academic rigor at UAH prepares you for most avenues of postgraduate training,” says Baldwin. “Healthcare is constantly evolving and changing with the influence of government, technology and an aging population. It’s hard to make a prediction on healthcare years from now, but as I finish training, I hope to have a lasting impact.”



# PEACE ON EARTH

UAH's seventh annual Peace on Earth concert was presented by the College of Arts, Humanities, and Social Sciences Dec. 7 in the Von Braun Center Mark C. Smith Concert Hall. The holiday spectacular was headlined by Indigo Girls and featured performances by faculty and students of the UAH Department of Music, the HCC Youth Chorale and the Huntsville Symphony Orchestra.

Photo credit: Glenn Baeske/UAH









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