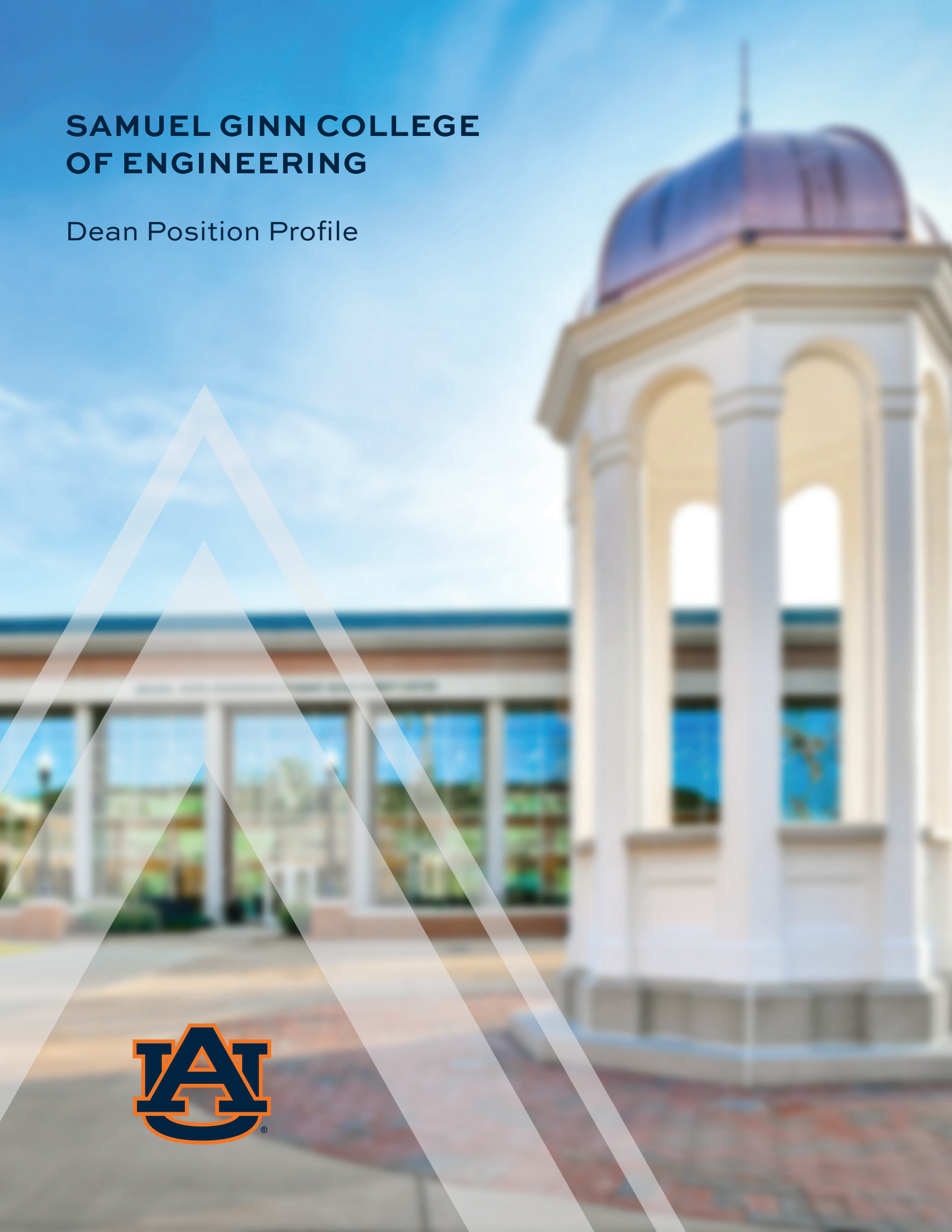
SAMUEL GINN COLLEGE OF ENGINEERING

Dean Position Profile



The Opportunity

DEAN, SAMUEL GINN COLLEGE OF ENGINEERING

Auburn University invites nominations and applications for the position of Dean of the Samuel Ginn College of Engineering. The dean serves as the chief academic and administrative officer for the college, and provides vision and leadership that enhances the college's tradition of excellence in teaching, research, service, outreach, and diversity. The dean reports directly to the provost and senior vice president for academic affairs and will be located in Auburn, Alabama.

As dean, the individual selected will be responsible for leading the college in pursuit of the college and university's shared values including scholarship, instruction, outreach and diversity. This individual will represent all departments, and centers within the college by advancing all programs inside and outside of the university. The dean will support and advocate for all students, faculty, and staff while ensuring that all constituents both enhance and improve their knowledge to better serve the college and university.

ABOUT AUBURN UNIVERSITY

A nationally ranked land-grant institution, Auburn University is frequently recognized for its commitment to world-class scholarship, interdisciplinary research with an elite, top-tier Carnegie R1 classification, life-changing outreach and an undergraduate education experience second to none. Our institution is committed to providing exceptional instruction, outreach and research that translates the intellectual capital of our University into unique solutions that impact the world.

In recent years, Auburn has gained considerable momentum — including record student enrollments, impressive retention and graduation rates, competitive program rankings, transformational research and scholarly advancements, and unprecedented levels of donor support — that continues to inspire our work and fuels our continuing drive for innovation.

With a $5.4 billion economic contribution to the state, Auburn has more than 300,000 graduates and provides 150-plus degree programs to nearly 30,000 undergraduate and graduate students.

Quick Facts*

31,764
Total Enrollment

5,303
First-Time Freshmen

92%
First-Year Retention Rate

20:1
Student/Faculty Ratio

1,443
Full-time Faculty Members

2,546
Administrative/Professional Employees

1,470
Staff Employees

5,459
Total Full-Time Employees

R1
Research University

*Based on latest figures.

OUR MISSION

As a land-grant institution, Auburn University is dedicated to improving the lives of the people of Alabama, the nation, and the world through forward-thinking education, life-enhancing research and scholarship, and selfless service.

OUR VISION

To lead and shape the future of higher education.

6 STRATEGIC GOALS

With a vision to lead and shape the future of higher education, we are guided by a strategic plan that presents a framework for our mission and vision, and articulates six pivotal goals that are critical to Auburn's future.

These goals include:

- **Elevated Auburn Experience**
  Inspire and prepare students for life and careers through delivery of an excellent and supportive experience characterized by distinctive, innovative curricula and engaging student life programs.
- **Transformative Research**
  Elevate research and scholarly impact to address society's critical issues and promote economic development in Alabama and beyond.
- **Impactful Service**
  Expand our land-grant and service capabilities to foster greater innovation and engagement that enhances the quality of life and economic development in Alabama and beyond.
- **Exceptional and Engaged Faculty and Staff**
  Invest in our outstanding people to advance the university's mission through recruitment, development, support, recognition, rewards and retention.
- **Strategic Enrollment**
  Achieve a robust and diverse enrollment of students while enhancing access, affordability and academic quality.
- **Operational Excellence**
  Implement operational efficiency and effectiveness measures that continuously support a culture of high performance at all levels of the university.

- *U.S. News & World Report* has ranked Auburn among the top public universities in the U.S., and *Kiplinger's* named Auburn one of their 100 Best Values in Public Colleges.
- *Forbes* ranks Auburn as the top university in the state of Alabama for delivering a meaningful return on investment.
- Named one of *Money*'s Best Colleges for Your Money, Auburn is also the top-ranked university in the state of Alabama.
- Auburn is the first university in the state to raise more than $1 billion in a comprehensive fundraising campaign, and achieved this more than a year earlier than projected.
- Auburn is listed with Distinction on the President's Higher Education Community Service Honor Roll, honoring dedication to civic engagement, service learning and outreach.
- Auburn has been designated an Innovation and Economic Prosperity University by the Association of Public and Land-Grant Universities, and in 2015 received the organization's Place Award for excellence in community, social and cultural development work.
- The Carnegie Classification of Institutions of Higher Education designated Auburn as an R1 institution in 2018, which is reserved for doctoral universities with the highest levels of research activity.
- According to the National Survey of Student Engagement, Auburn provides a supportive campus environment, and our students report higher satisfaction with their overall academic experience than students at peer institutions.
- In a survey of recent graduates, 97 percent feel their Auburn education has enhanced their opportunity for future advancement.
- Auburn alumni are satisfied with their college choice, with 92 percent of recent graduates indicating they would choose Auburn again.

SAMUEL GINN COLLEGE OF ENGINEERING

Auburn Engineering has a long and rich tradition of excellence in engineering education. The Samuel Ginn College of Engineering is the highest ranked engineering program in the state, and consistently ranks among the top institutions in the country. The college produces more than one third of Alabama's engineering graduates and is a top 25 producer of African American engineering graduates in the nation.

As a college, Auburn Engineering faculty and students conduct pioneering research with a focus on five strategic research areas: advanced manufacturing and materials; cybersecurity and intelligent systems; energy and environment; infrastructure and transportation; and biomedical and health systems engineering. The college's research initiatives are an extension of the university's mission – to produce global solutions through the pursuit of knowledge.

The Samuel Ginn College of Engineering has seven strategic goals, designed to enhance the strengths that make the college unique to achieve elevated levels of excellence:

- Provide transformative engineering education programs
- Significantly grow the college's research enterprise to meet global challenges
- Strengthen engagement and partnerships to advance the college's programs
- Recruit, develop, support, recognize, reward and retain exceptional faculty and staff
- Accelerate the college's recruitment of high-caliber undergraduate and graduate students
- Strengthen the college's culture of continuous improvement across college operations
- Elevate awareness and promote the college's programs to improve visibility and reputation

Mission

The Samuel Ginn College of Engineering embraces its land-grant values in order to transform lives and enhance society through impactful engineering education and research. The Samuel Ginn College of Engineering will:

- Prepare students, through high quality internationally recognized instructional programs, to practice engineering professionally and ethically in a competitive global environment.
- Expand scientific and engineering knowledge through innovative research and creative partnerships involving academia, industry and government.
- Provide programs to assist individuals and organizations to find solutions to engineering problems through education, consulting and practical research.

Vision

The Samuel Ginn College of Engineering will be an innovative and engaged community of faculty, staff, and students who exemplify excellence through an exceptional student-centered engineering experience and transformational research that improves quality of life and fosters economic growth. The Samuel Ginn College of Engineering will be

- The best student-centered engineering experience in America!
- A leader in research and service that improves the quality of life and fosters economic growth.
- A community of faculty, staff, and students that exemplifies excellence and innovation.

ABOUT AUBURN ENGINEERING

10 Departments/Programs*:

- Aerospace Engineering
- Biosystems Engineering
- Chemical Engineering
- Civil and Environmental Engineering
- Computer Science and Software Engineering
- Electrical and Computer Engineering
- Industrial and Systems Engineering
- Materials Engineering*
- Mechanical Engineering
- Wireless Engineering*

19
majors and minors

193
tenure/tenure track faculty

48
research/non-tenure track faculty

5,068
undergraduate students

1,150
graduate students

18%
of Auburn's freshman class

$78
million in research expenditures

31st
in nation in research expenditures

43
undergraduate and graduate degrees offered

Auburn Engineering's strengths include:

Impressive students

More than 6,200 undergraduate and graduate students and approximately 500 degrees awarded each year.

Commitment to diversity

Auburn Engineering is a top 25 producer of African American engineering graduates in the nation.

A solid research funding base

More than $78.2 million in annual research expenditures in FY 2022.

Unique collaborations

The college partners with numerous institutions, industry partners and outreach programs.

Innovative resources

Efforts to support student success include unique programs to recruit, reward and retain the best students.

Enhancing the student experience

Students can find their niche among more than 40 student engineering organizations.

Continued support from industry and donors

Auburn Engineering raised $40 million in donor funds in fiscal year 2022.

EXCEPTIONAL INSTRUCTION

The Samuel Ginn College of Engineering is focused on providing the best student-centered engineering experience in America. We pride ourselves on providing hands-on, experiential learning opportunities for students both inside and outside the classroom. By providing a student-centered learning experience and high levels of engagement with faculty, we graduate engineers capable of addressing some of the world's most pressing challenges in the engineering field.

The college's 10 departments and programs deliver knowledge and expertise from thought-leaders in academia and industry, connecting undergraduate students across campus with postgraduate students and faculty dedicated to student-centered teaching and extraordinary research.

Students are provided with unique opportunities to develop analytical and deductive reasoning skills within each discipline, whether in the classroom, in the lab, abroad or the field. These efforts are bolstered by an active research faculty that provides students with experimental research opportunities and fosters a thoughtful appreciation for the scientific community. Auburn Engineering faculty and students conduct novel research in many emerging and established research areas, including the college's research focus areas of advanced manufacturing and materials, cybersecurity and intelligent systems, energy and environment, infrastructure and transportation, and biomedical and health systems engineering.

Undergraduate Students by Program

Aerospace	580
Biosystems	178
Chemical	424
Civil and Environmental	545
Computer Science and Software	1,180
Electrical and Computer	512
Industrial and Systems	395
Materials	28
Mechanical	1,168
Wireless	11
Pre-engineering	47
Total	5,068

Graduate Students by Program

MASTER'S DOCTORAL

Aerospace	28 | 54
Biosystems	19 | 18
Chemical	10 | 79
Civil and Environmental	74 | 68
Computer Science and Software	84 | 116
Cybersecurity	20
Data	13
Electrical and Computer	35 | 69
Master of Engineering	22
Engineering Management	99
Industrial and Systems	53 | 85
Materials	9 | 33
Mechanical	66 | 91
Polymer and Fiber	1 | 4
Total	1,150

*Based on Fall 2022 enrollment

FOSTERING STUDENT SUCCESS

The Samuel Ginn College of Engineering offers many avenues for students to find academic and professional support and guidance on their path to graduation. From K-12 outreach through student resources and post-graduate guidance, the comprehensive Auburn Engineering experience makes the Samuel Ginn College of Engineering the best student-centered engineering experience in the country.

100+ Women Strong

Fostering the success of female engineering students through mentorship and networking is the guiding principle of 100+ Women Strong, an organization to recruit, retain and reward Auburn women in engineering.

Center for Inclusive Engineering Excellence

Designed to recruit, retain and reward underrepresented students within all engineering fields, the Center for Inclusive Engineering Excellence serves students through academic and professional development, mentorship and peer learning.

Engineering Tutoring Center

Students are encouraged to participate in free individual and group tutoring services that cover nearly 75 subjects in math, science and high-demand engineering courses.

Mentoring and Advising

The academic advisors and faculty in the Samuel Ginn College of Engineering are engaged and ready to help students achieve their academic goals. Additional peer advising and mentoring programs serve to further highlight the Auburn Engineering experience as one that centers student academic achievement.

Career Development

The college's Office of Career Development and Corporate Relations aims to equip students to discover, develop and launch purposeful careers by providing customized, student-centered career coaching and resources and cultivating industry-focused partnerships.

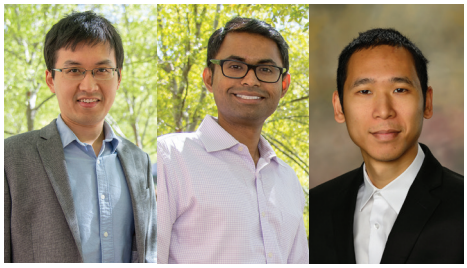
TRANSFORMATIONAL RESEARCH

Auburn University is committing unprecedented levels of support for research across campus, bolstering engineering research programs that have long been on the ascendency. The research underway throughout the Auburn Engineering campus is improving the quality of life and fostering economic competitiveness for our state, region, country and throughout the world.

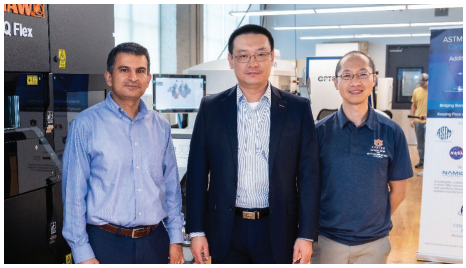
As of Fall 2021, the college generated $78.2 million in extramural funds through collaborations with funding agencies including the National Science Foundation, Department of Energy, NASA, Department of Defense, the National Institutes of Health, the National Institutes of Standards and Technology as well as major universities and laboratories around the world.

Auburn Engineering maintains outstanding faculty conducting cutting-edge, impactful research:

The Interdisciplinary Center for Advanced Manufacturing Systems at Auburn University is the recipient of a $7.2 million award from the Department of Defense's Office of Industrial Policy's Industrial Base Analysis and Sustainment Program to encourage small and medium-sized manufacturers to adopt the advanced technologies associated with Industry 4.0, or smart manufacturing.



Over the last year, the National Science Foundation awarded three CAREER awards to Auburn Engineering assistant professors Xiaowen Gong, Vrishank Raghav and Anh Nguyen for their work in federated learning, pulsatile flow and artificial intelligence, respectively.



The National Institute of Standards and Technology recently awarded Auburn University's National Center for Additive Manufacturing Excellence and the ASTM Additive Manufacturing Center of Excellence nearly $1 million to establish through computer vision and machine learning a data-driven framework for the non-destructive qualification of additively manufactured materials and parts for mission critical applications.

The Department of Chemical Engineering has marked its third Maximizing Investigators' Research Award from the National Institute of General Medical Sciences, a branch of the National Institutes of Health in two years. From left, assistant professors Chris Kieslich, Panagiotis Mistriotis and Robert Pantazes.

An interdisciplinary team of researchers co-led by Elizabeth Lipke, the Mary and John H. Sanders Professor in the Department of Chemical Engineering, is examining the link between colorectal cancer disgnosis and obesity with a nearly $2.5 million R01 research award from the National Institutes of Health.

The U.S. Nuclear Regulatory Commission awarded civil engineering faculty Jack Montgomery and Kadir Sener nearly $500,000 to develop a soil-structure-interaction framework to enhance the regulatory oversight of new generation nuclear power plant designs known as Small Modular Reactors.

IMPACTFUL OUTREACH

In partnership with faculty, staff and campus partners, the Samuel Ginn College of Engineering is involved in numerous activities designed to expose primary and secondary students to the world of engineering with the goal of strengthening and diversifying the engineering workforce of the future.

These fun and educational programs engage K-12 students through hands-on and interactive engineering programs while empowering and encouraging students to develop the necessary skills and confidence to pursue a career in a STEM field.

The college's signature outreach event, E-Day, gives students a chance to learn about our campus, our programs and the incredible opportunities Auburn's Samuel Ginn College of Engineering offers.

Seventh-through-12th-graders have opportunities to chat one-on-one with students and faculty, experience interactive exhibits, and visit classes and labs, including the new Brown-Kopel Engineering Student Achievement Center. Participants can also tour the beautiful Auburn campus, and learn about admissions, scholarships, financial aid and residence life.

Future Engineer

Advanced Structural Engineering Laboratory

STATE-OF-THE-ART FACILITIES

Advanced Structural Engineering Laboratory

The Advanced Structural Engineering Laboratory (ASEL) is a state-of-the-art facility for experimental characterization and performance testing of engineering materials, structural components, structural systems, geotechnical materials and integrated soil-structure systems. The three areas of the ASEL include the large-scale structural and geotechnical testing laboratory, the concrete materials laboratory and the administrative wing. The administrative wing houses primarily offices and conference spaces as well as an area for viewing the large-scale laboratory.

Brown-Kopel Engineering Student Achievement Center

Located in the heart of campus, the Brown-Kopel Center specifically addresses students' professional and academic needs, providing one of the most comprehensive, active-learning environments in the country. The center also creates greater opportunities for collaboration among faculty members and fellow students, cultivating a sense of home within the engineering campus.

Designed to serve students from all engineering disciplines, the facility incorporates high-contact initiatives including student recruitment, scholarships, curriculum advising, tutoring, career development, corporate relations and international experiences.

Design and Innovation Center

- Student-run facility
- 11,000-square-foot workshop open to students from all engineering disciplines
- Hands-on classroom enrichment
- Makerspace featuring a woodshop, a prototype shop, an electronics shop, a metal shop and a machine shop

Auburn University Research and Innovation Campus

The Auburn University Research and Innovation Campus in Huntsville, Alabama will significantly expand Auburn's presence in the fastest-growing tech hub in the country, establishing a permanent foundation from which Auburn can leverage its regional reputation and thriving public-private partnerships into unprecedented national prestige and influence.

Designed to foster a new era of interagency and interdisciplinary collaboration necessary to secure the nation into the next century, the facility will serve as a state-of-the-art research space, collaboration engine and conference center that will focus Auburn's expertise and next-generation resources on the defense, aerospace and law enforcement agencies that call Redstone Arsenal home.

ENGINEERING CAMPUS

As one of the oldest colleges on campus, the Samuel Ginn College of Engineering has a rich history at Auburn University. Anchored by the newly-constructed Brown-Kopel Engineering Student Achievement Center located in the heart of the engineering campus, Auburn Engineering students enjoy new and renovated facilities equipped with state-of-the-art technology, interactive laboratories and classrooms from which they gain hands-on, experiential learning opportunities.

OUR COMMUNITY

Auburn is a small, friendly university town in the rolling hills of east-central Alabama, with a population of approximately 76,000. Conveniently located along Interstate 85, Auburn is less than 60 miles northeast of Alabama's capital city of Montgomery, about 30 miles west of Columbus, Georgia and 100 miles southwest of Atlanta. The pristine, sandy-white beaches of Alabama's Gulf Shores can be reached in less than four hours. The university has a special relationship with the City of Auburn, including partnerships such as the Yarbrough Tennis Center and the Auburn Research Park. The famed Toomer's Corner marks the spot where the city and university intersect and is a destination for the city and university communities to gather in celebration.

Auburn residents overwhelmingly rate the city as a great place to live, work and raise children. Forbes has consistently ranked Auburn on its lists for Best Places to Retire and Best Small Places for Business and Careers. In 2018, Auburn was listed among the Top 100 Best Places to Live in the U.S. by Livability. Auburn's public schools are regularly ranked among the best in the state and nation.

Residents have access to a number of city parks and recreational programs, as well as Chewacla State Park's 696 scenic acres, including a 26-acre lake, waterfall and trails. In summer 2019, the Jay and Susie Gogue Performing Arts Center opened as a cultural destination offering world-class performances. The Gogue Center and Jule Collins Smith Museum offer a vibrant arts district for the campus, community and region.

Opelika, Auburn's sister city, is full of small-town charm, rich in heritage and offers a high quality of life for its nearly 30,000 residents. Opelika is the county seat for Lee County, the eighth most populous county in Alabama and the home of Auburn University. The Auburn-Opelika metro area has approximately 162,000 residents.

Opelika is also home to the Opelika SportsPlex and Aquatics Center, Opelika Performing Arts Center, East Alabama Medical Center, Southern Union State Community College, (one of 27 institutions in the Alabama Community College System) and the Robert Trent Jones Golf Trail at Grand National.

DEAN, SAMUEL GINN COLLEGE OF ENGINEERING

Auburn University invites nominations and applications for the position of Dean, Samuel Ginn College of Engineering. The Dean serves as the College's chief academic and administrative officer and provides vision and leadership that enhances its tradition of excellence in teaching, research, service, outreach, and diversity. The Dean reports directly to the Provost and Vice President for Academic Affairs and will be located in Auburn, Alabama.

Auburn University is one of the nation's premier public land-grant institutions, and in 2022, it was ranked 40th among public universities by U.S. News and World Report. Auburn, an R1 research university, maintains elevated levels of research activity and high standards for teaching excellence, offering bachelor's, master's, educational specialist, and doctor's degrees in agriculture and engineering, the professions, and the arts and sciences. Its 2022 enrollment of 31,764 students includes 25,379 undergraduates and 6,385 graduate and professional students. Organized into 12 academic colleges, Auburn's 1,443 faculty members offer more than 150 plus educational programs. The University is nationally recognized for its commitment to academic excellence, positive work environment, student engagement, and beautiful campus.

The Samuel Ginn College of Engineering is recognized as a national leader in higher education, ranking among the nation's top 35 public institutions in U. S. News and World Reports 2023 Best Undergraduate Engineering Programs for the 12th consecutive year and recently celebrated its 150th anniversary. The College offers degrees across 10 programs, including Aerospace, Biosystems, Chemical, Civil and Environmental, Computer Science and Software, Electrical and Computer, Industrial and Systems, Materials, Mechanical, and Wireless Engineering.

The Samuel Ginn College of Engineering has approximately 6,300 students, including 5,068 undergraduate and 1,150 graduate students, in 43 different offered degrees taught by 193 tenure/tenure track and 48 non tenure track teaching/research faculty. In addition, the College has 16 modern facilities and is home to 22 research centers and institutes creating more than $70 million in research awards and $78 million in expenditures in 2022. The faculty, graduate student enrollment, and research awards grew considerably over the past seven years.

The Dean will lead the College in support of the University's shared values, including scholarship, instruction, outreach, and diversity. This individual will represent all academic units within the College and advance all programs inside and outside the university. In addition, the Dean must support and advocate for all students, faculty, and staff while ensuring that all constituents both enhance and improve their knowledge to serve the College and University better. For more information on the position, visit aub.ie/sgcoedean.

Auburn residents enjoy a thriving community, recognized as one of the "best small towns in America," with a moderate climate and easy access to major cities or beach and recreational mountain facilities. Situated along the rapidly developing I-85 corridor between Atlanta, Georgia, and Montgomery, Alabama, the combined Auburn-Opelika, Alabama-Columbus, Georgia statistical area has a population of over 500,000, with excellent public-school systems, outstanding recreation areas, and an exceptional regional medical center.

Candidates must possess an earned doctorate in engineering or commensurate credentials at the time of employment, and academic and professional accomplishments that are sufficient to merit appointment with tenure at the rank of professor. In addition, the successful candidate will possess a demonstrated capacity to lead a growing organization, build consensus among stakeholders, foster increased research and scholarship, promote student advancement, enhance corporate and alumni relations, assertively fundraise, and effectively represent the College to outside constituencies. Experience in administration, fiscal management, faculty/staff development, and fundraising is highly desired. Knowledge of accreditation standards is required. Other qualifications include collaborative leadership, shared decision-making and demonstrated effectiveness in sustaining collegial relationships with faculty, students, and administrators.

A successful track record in budget development, strategic planning and practical ability to balance advocacy for the College with the University community's needs is essential to success in this position. In addition, the candidate selected for this position must meet eligibility requirements to work in the United States when the appointment is scheduled to begin and continue working legally for the proposed term of employment.

Salary and benefits will be commensurate with education and experience.

While applications and nominations will be accepted until the position is filled, interested parties are encouraged to submit their curriculum vitae and letter of interest indicating experience as it relates to the position to the address below by **January 8, 2023.**

Electronic submissions of all nominations and applications are encouraged.

Search Committee – Dean, Samuel Ginn College of Engineering
Attention: Director, Breckenridge Partners
Email: mek@breckenridgepartners.com

Initial review of candidates will begin in January and will continue until a qualified candidate is appointed.


UNIVERSITY
INSTRUCTION
EXTENSION
RESEARCH
FOR THE
ADVANCEMENT
OF SCIENCE
AND ARTS
ESTABLISHED 1856