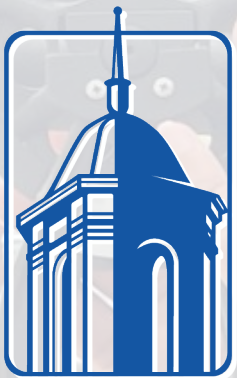




ENGINEERING IMPACT 2022



**TENNESSEE
STATE UNIVERSITY
COLLEGE OF ENGINEERING**

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Excellence
is our Habit!



TENNESSEE
STATE UNIVERSITY

COLLEGE OF ENGINEERING
MAGAZINE
VOL. 2022

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2022 AMIE ANNUAL CONFERENCE

September 25-27, 2022

Gaylord Opryland Hotel and Conference Center
Nashville, TN

Hosted By  **TENNESSEE
STATE UNIVERSITY**

“EXPANDING ENGINEERING’S HORIZONS THROUGH SUSTAINABLE PARTNERSHIPS WITH HBCUS”

Join us for the 29th Advancing Minorities’ Interest in Engineering (AMIE) Annual Conference, an innovative and interactive experience that will bring together the Council of Engineering Deans of the Historically Black Colleges and Universities (HBCU), students, engineering professionals and leaders from top corporations and government agencies.



REGISTRATION OPEN

www.AMIECONFERENCE.com

LOCATION:
NASHVILLE, TENNESSEE

FOR EVENT QUESTIONS:
VERONICA L. NELSON - EXECUTIVE_DIRECTOR@AMIEPARTNERSHIP.ORG



#AMIE2022

A MESSAGE FROM THE DEAN

On behalf of the faculty of the College of Engineering at Tennessee State University (TSU), I welcome you to the 2022-2023 Academic Year. This year marks a historical record-breaking enrollment of first-year students for the College of Engineering. This accomplishment has presented some challenges because it was unexpected, but it has resulted in the College having the chance to grow in faculty and staff, providing over 6 positions which include an Associate Dean of Research and Graduate Studies and a College Recruiter.

Civil Engineering, Architectural Engineering, Electrical Engineering, Mechanical Engineering, Computer Science, and Applied and Industrial Technologies are among the fastest growing disciplines with high employability rates and post-completion career opportunities. Successful graduates of these departments are typically employed within a short period of time and with attractive salaries. For instance, recent graduates of the Computer Science Department accepted jobs with salaries ranging from \$120K to \$175K. Two students went to work for Google, and another was hired by Amazon. Most of our engineering graduates had multiple job offers upon graduation. This is attributed to the high demand of the students in the field and the cautious efforts of our Career Development Center and College to expose our students to as many companies and opportunities as possible. These opportunities are provided by campus-organized events or by providing resources to support students traveling to conferences (i.e., BEYA, NSBE, SWE). The College attracts several new and continual industrial partners each year, as demand for our graduates is strong in the Middle Tennessee area and nationwide.

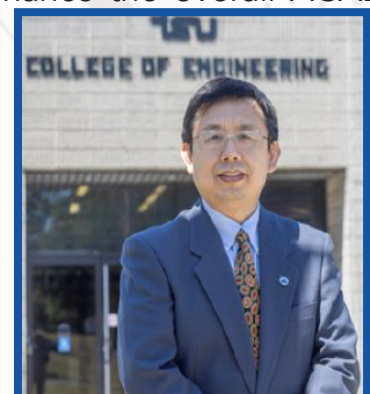
Other accomplishments of the College of Engineering include the completion of ABET accreditation campus visit in November of 2021, the hiring of a Director of Student Services to assist with student retention, and the allocation of over \$370,000 in scholarships to incoming and returning students in the 2021-2022 Academic Year. The College also conducted six summer outreach programs for students in 6th -12th grade and launched the New Master of Science program in Data Science this Fall 2022. Majority of the faculty members in the College are active in groundbreaking research in areas of Artificial Intelligence, Environmental Justice, Renewable Resources, Robotics, Cyber Security, Mechatronics, Transportation, and Material Science. Within the past year, faculty have acquired numerous new grants from federal agencies, state agencies, and industrial partners.

As Dean of the Tennessee State University College of Engineering, I look forward to working with our faculty and staff in continuing to develop and implement strategic initiatives that align with TSU's Strategic and Academic Master Plan. These initiatives will expand ACCESS for students to the university, college, and industry, provide resources that make pursuing a degree in the College of Engineering AFFORDABLE, and enhance the overall ACADEMIC QUALITY AND EXPERIENCE of our programs.

Sincerely,



Dr. Lin Li, PhD, PE, Fellow of ASCE
Interim Dean, College of Engineering



CoE DEGREE PROGRAMS

- ❑ BS in Architectural Engineering
- ❑ BS in Civil Engineering
- ❑ BS in Electrical Engineering
 - Computer Engineering Concentration
- ❑ BS in Mechanical Engineering
- ❑ BS in Computer Science
 - Data Science Concentration
 - Cybersecurity and Networking Concentration
 - Bioinformatics Concentration
- ❑ BS in Applied & Industrial Technologies
 - Mechatronics Technology Concentration
 - Aviation Management Concentration
- ❑ Master of Engineering
 - Manufacturing | Mechanical Engineering
- ❑ Master of Science in Computer Science
 - Bioinformatics | Cybersecurity | Data Science
- ❑ Master of Science in Data Science (online)
- ❑ Master of Science in Computer & Information Systems Engineering (MS-CISE)
- ❑ Doctor of Philosophy in Computer & Information Systems Engineering (PhD-CISE)
- ❑ Doctor of Philosophy in Engineering & Computational Sciences (PhD-ENCS)
 - Computational Sciences
 - Engineering Systems

WHY TSU?
TSU is a comprehensive, urban, coeducational, land-grant university in the state capital - Nashville, "Music City USA," Tennessee

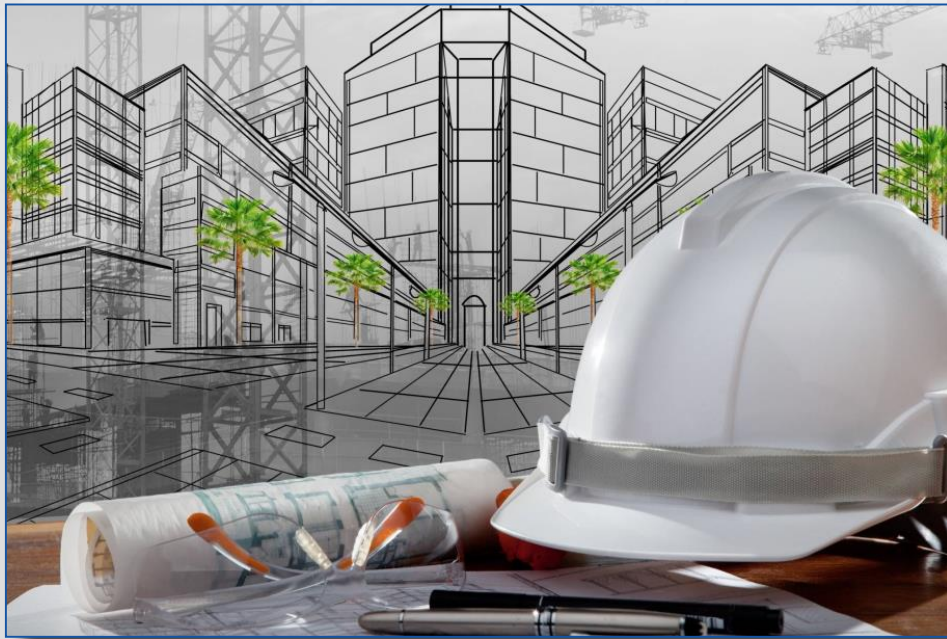


More Information, visit <https://www.tnstate.edu/engineering/>

APPLY: [HTTP://GO.TNSTATE.EDU/INQUIRYFORM](http://go.tnstate.edu/inquiryform)

NEW ENGINEERING BUILDING

June 1, 2022, Governor Bill Lee signed an agreement to issue \$60M to Tennessee State University for construction of a new engineering building. The building will be a state-of-the-art facility with teaching, research, and service spaces for the five departments in the College of Engineering and for future program development. Currently, the building is in the preliminary design phase, and we welcome industrial partners and individuals to support this effort through program development and/or monetary contributions towards the building fund. Our continued goal is to produce well-rounded, competent, and marketable students and research to the industry, your contribution whether technical or monetary will help us achieve this goal. If you are interested in partnering with the College of Engineering in any capacity, please contact the Director of Development, Dr. Catherine Armwood-Gordon at carmwood@tnstate.edu or 615-963-5416.



DEPARTMENT OF APPLIED & INDUSTRIAL TECHNOLOGIES

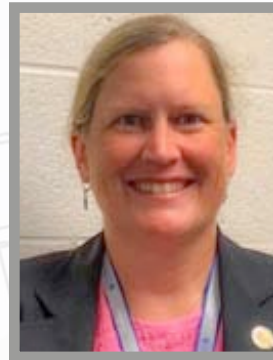
The BS Program offers (1) *Mechatronics Technology* concentration emphasizes electronics, operations, management, robotics, material handling and quality control; (2) *Aviation Management* concentration is designed to prepare and provide students with the skills and expertise for management careers in a wide array of aviation related fields.



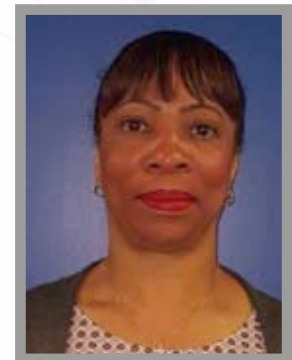
Dr. Mosley
Management (Chair)
Professor



Dr. Beane
Mechatronics
Asst. Prof.



Dr. Riley
Pilot/Flight
Asst. Prof.



Ms. Hayes
Management
Adjunct Prof.

TSU'S AVIATION PROGRAM BREAKING BARRIERS TO INCREASE NUMBER OF BLACK COMMERCIAL, AIR FORCE PILOTS

Growing up in Dallas, Texas, Mateo Lannaman's dream was to be a pilot and fly high across the sky. With lack of funding and without a clear path, he didn't know where to turn, until he met a mentor in flight training at Rising Aviation who gave him an advice that would change the young man's life forever. "He told me about Tennessee State University and the outstanding aviation program there," Lannaman said. "He said there were scholarships for qualified students who were interested." Lannaman took his mentor's advice and applied. He was accepted with a full scholarship to study aviation management as a concentration in the Department of Applied and Industrial Technologies in the College of Engineering. The program is certified to train commercial pilots.

With the low number of Black commercial and Air Force pilots in the nation, Lannaman comes into an aviation program that is seeing tremendous growth thanks to a vigorous recruitment effort, outstanding faculty, and a long partnership with the Air Force ROTC (AFROTC) detachment at the University.



DEPARTMENT OF CIVIL & ARCHITECTURAL ENGINEERING

The Department offers two BS ABET-accredited Degree: Civil Engineering and Architectural Engineering. Civil engineers plan, design, construct, operate and maintain public infrastructures such as buildings, bridges, dams, airports, power facilities, treatment systems, water supply, and transportation systems. Architectural Engineering is the profession that offers and integrated multi-disciplinary approach to planning, design, construction, and operation of buildings. The Department offers Master of Engineering and PhD ENCS program.



Dr. Armwood
Structural (Chair)
Assoc. Prof.



Dr. Chimba
Transportation
Professor



Dr. Liu
Geotechnical
Asst. Prof.



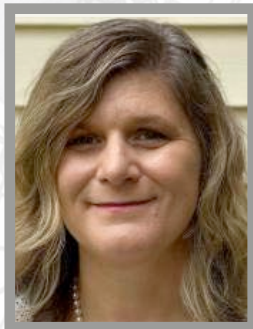
Dr. Painter
Environmental
Professor



Dr. Li
Geotechnical (Dean)
Professor



Mr. Du
Construction
Instructor



Dr. Gardiner
Environmental
Asst. Prof.



Dr. Wang
HVAC
Asst. Prof.



Dr. Parthasarathy
Structural
Asst. Prof.



Dr. Davis
Electrical Systems
Pract. Prof.

NEW GRANTS IN 2022

Dr. Armwood: \$300,000 NSF-IRES
 Dr. Armwood: \$1,000,000 NSF S-STEM
 Dr. Armwood: \$50,000, TBR
 Dr. Armwood: \$50,000, TDOT
 Dr. Armwood: \$500,000 USDA
 Dr. Gardiner: \$20,000 UCOR
 Dr. Gardiner: \$60,000 DOE
 Dr. Gardiner: \$50,000 Waste Management
 Dr. Li: \$1,000,000 NSF
 Dr. Li/Liu: \$300,000 HUD
 Dr. Li/Painter: \$200,000 NSF-MRI
 Dr. Li/Wang: \$60,000 DOE
 Dr. Parthasarathy: \$50,000 TRB
 Dr. Parthasarathy: \$480,000 NASA MUREP
 Dr. Chimba: \$400,000 TDOT
 Dr. Chimba: \$1,000,000 TDOT
 Dr. Chimba: \$470,000 DHS
 Dr. Chimba: \$500,000 FRA



DEPARTMENT OF COMPUTER SCIENCE

As the Largest Department in the CoE, there is over 350 student enrollment for BS, MS Science, MS Data Science, PhD ENCS programs. The BS program covers contemporary computer science fields such as computer architecture and organization, software systems, algorithm design and analysis, computer programming, database management systems, computer networks and data communication, cybersecurity, and artificial intelligence.



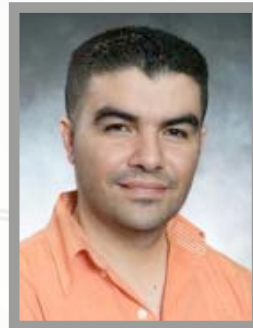
Dr. Sekmen
Chair
Professor



Dr. Yao
Image/Robotics
Professor



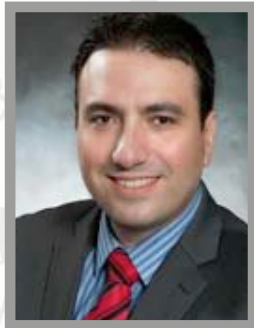
Dr. Rogers
Networking
Assoc. Prof.



Dr. Al Nasr
Bioinformatics
Assoc. Prof.



Dr. Shao
Programming
Assoc. Prof.



Dr. Erdemir
Robotics
Assoc. Prof.



Mr. Miao
Bioinformatics
Asst. Prof.



Dr. Samad
Machine Learning
Asst. Prof.



Dr. Chen
Computing
Professor

NEW GRANTS IN 2022

Dr. Sekmen: \$660,000 DOD

Dr. Yao: \$150,000 AFRL

Dr. Sekmen: \$80,000 Amazon

Dr. Al Nasr: \$535,000 NSF

Dr. Brahma: \$500,000 NSF (CAREER)

Dr. Brahma: \$190,000 USDA



The Department has the first NSF CAREER Award in TSU
The Department has Amazon-endowed Professorship

FACULTY HIGHLIGHTS



ME Assistant Professor Dr. Leitao Chen won his two NSF grants in his first year at TSU. The RIA grant title is “A Boltzmann Model for Multi-Scale and Multi- Physics/Chemistry Transport Phenomena in Porous Media”. The goal of this project is to develop a specialized simulation model with the high-performance computing capability based on a new methodology that solves the Boltzmann equation with the finite volume method, which allows a convenient adoption of fully unstructured grids to precisely reconstruct the complex three-dimensional boundaries rendered by porous media. The novelty of this project is that it provides a specifically tailored simulation model that demonstrates a superiority in computational performance over existing methodologies for the multi-scale and multi-physics/multi-chemistry fluid transport phenomena in porous media. This new model can accelerate the understanding of the selected research problem. With further development, it can become a general simulation tool for the modeling of any transport phenomenon beyond fluid transport.!

ECE Assistant Professor Dr. Hason won NSF new grant “Zero- trust Architecture for secure communication in beyond 5G (B5G) networks”. It is a novel AI/ML aided zero-trust (ZT) framework for secure communication. Collaboration with Howard University, innovative theoretical design and practical implementation of proposed algorithms in an open source standardized prototype will be developed to design the next-generation secure communication systems.



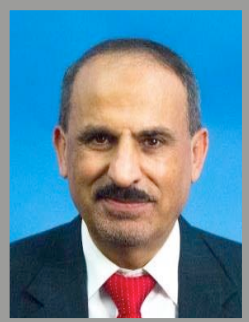
ME Assistant Professor Dr. Fasoro won his first NSF grant “Research Initiation Award: Microstructural Evolution and Constitutive Modeling of Creep and Elevated Temperature Quasi- Static Tensile Deformation in Additively Manufactured Grade 91 Steel Alloy”. It will study the creep behavior of AM ferritic grade 91 steel alloys which are potential materials for high-temperature structural applications in the aerospace and nuclear energy industries. Congratulations!

CS Professor Dr. Yao won his ARFL grant “Autonomous Software Security Vulnerability Testing based on Machine Learning and AI”. It will use Python to conduct vulnerability detection based on machine learning and AI techniques. This work is based on automated techniques, e.g. CCleaner, CDLH (Clone Detection with Learning to Hash), bidirectional LSTM, Random Forest based quantitative analysis on security patch types, Data mining.



DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

The Department offers undergraduate and graduate degree programs leading up to Master of Engineering, Master of Science, and Ph.D. in Engineering and Computational Sciences. Our undergraduate program offers BS in Electrical Engineering and a concentration in Computer Engineering under the BS degree.



Dr. Zein-Sabatto
Control/AI (Chair)
Professor



Dr. Bodruzzaman
Signal processing
Professor



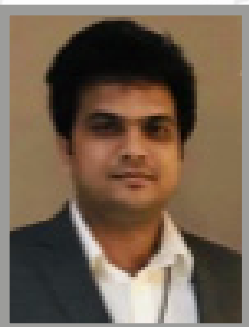
Dr. Hong
Communication
Professor



Dr. Keel
Control Systems
Professor



Dr. McCurry
System Engineering
Assoc. Prof.



Dr. Hasan
Cyber Security
Asst. Prof.



Dr. Ghosh
Power Systems
Asst. Prof.

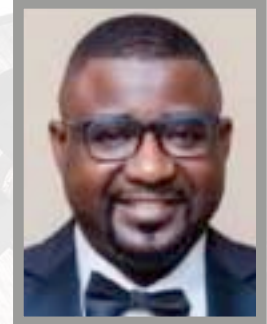
NEW GRANTS IN 2022

- Dr. Hasan: \$158,000 NSF
- Dr. Hong: \$200,000 NSF
- Dr. Ghosh: \$191,000 NSF
- Dr. Hason: \$400,000 NSF-TIP
- Dr. Sabatto: \$30,000 CIA
- Dr. Keel: \$80,000 Amazon
- Dr. McCurry: \$80,000 Amazon



DEPARTMENT OF MECHANICAL & MANUFACTURING ENGINEERING

Mechanical and manufacturing engineers research, design, build, test, maintain and improve mechanical tools, devices, as well as thermal and dynamic systems.



Dr. Onyebueke
System Design (Chair)
Professor

Dr. Shirkhodaie
Robotics/Sensing
Professor

Dr. Chen
CFD/Heat Transfer
Asst. Prof.

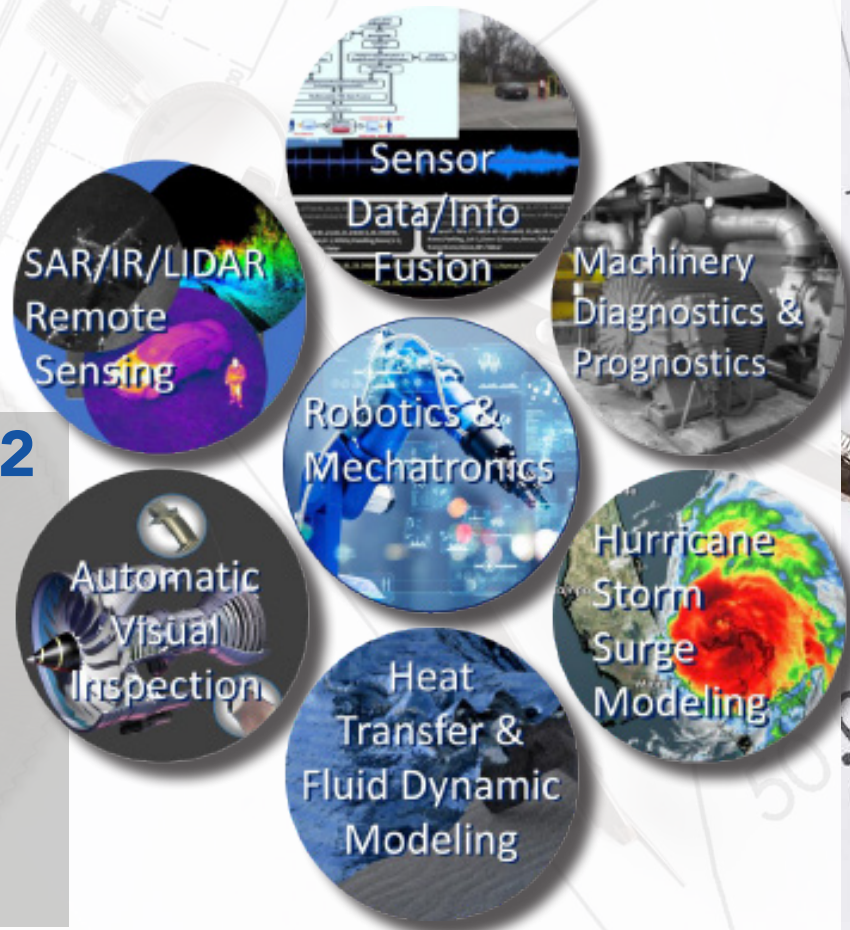
Dr. Akbar
CFD/HVAC/Surge
Assoc. Prof.

Dr. Fasoro
Material Science
Asst. Prof.



Dr. Habibi
Robotics/Mechanics
Asst. Prof.

Dr. Hamidzadeh
Vibration/Diagnostics
Professor

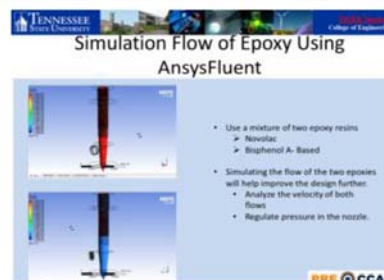


NEW GRANTS IN 2022

- Dr. Onyebueke: \$1,100,000 DOE
- Dr. Akbar: \$406,000 NSF
- Dr. Shirkhodaie: \$50,000 GTRI
- Dr. Shirkhodaie: \$150,000 AFRL
- Dr. Chen: \$300,000 NSF RIA
- Dr. Chen: \$132,000 NSF
- Dr. Fasoro: \$150,000 NSF RIA
- Dr. Fasoro: \$575,000 DOE

STUDENT ACTIVITIES

Amairanny Espinosa, Mechanical Engineering senior student, worked as intern at Vanderbilt Institute for Surgery and Engineering in Summer 2022. She involved the creation, development, implementation and evaluation of methods, devices, algorithms, and systems designed for applications that facilitate surgical/interventional processes and their outcomes. The work described methods for developing a realistic tissue- mimicking retraction phantom and an algorithmic approach for determining soft-tissue deformations during breast conserving surgery (BCS) tissue retraction.



Civil Engineering Senior student and NSF PROMISE Scholar **Ethiopine Choping** is now at the University of Illinois Urbana-Champaign doing research for the National Science Foundation (NSF). Learning computational chemistry and wrapping it into Civil Engineering. She loves learning, is a scientist at heart and is currently working for Dr. Chimba for transportation research.

Dr. Chimba, transportation faculty has led five **TRB minority fellow** to attend TRB conference at Washington DC in January 2022. The five students are **Jeannine Mbabazi, Jose Portillo, Ethiopine Choping, Joi Robinson, Bahati Chimba**. Graduate student **Hellen Shita** and PhD student **Grace Mbiaji** also attended the conference and presented their research.



Travion Crutcher is senior student of mechanical engineering. As the Intern at Boeing in Summer 2022, he was selected as the WayUp/Yello National #1 Intern of the year! It is such honor to be the position. This internship was filled with great experiences, intricate problems to solve, and many new connections! He appreciated his manager and team lead for providing him insight on how to do the best work possible.

STUDENT ACTIVITIES

In March 2022, 12 **NSBE** student chapter member had opportunity to travel to Anaheim, California for the 48th National Society of Black Engineers National Convention. They had an amazing time networking, seeking new opportunities and just venturing around. As black engineering excellence, they all have an incredible future ahead of them as long as they continue to excel academically, succeed professionally and positively impact the community! Thanks for industrial sponsors and faculty advisor Dr. Armwood-Gordon and Dr. Rogers.



TSU Career Development Center
Internship Spotlight

Mercy Sammy

Name: Mercy Sammy
Hometown: Ethiopia
Major: Mechanical Engineering
Graduation Date: December 2021
Company: DTE Energy
Position: Project Data Analyst
Time: Summer 2021



"Coming together is a beginning, keeping together is progress and working together is a success"
-Henry Ford

THE TENNESSEE STATE UNIVERSITY

STUDENT COMPETITIONS

In March 2022, ASCE student chapter concrete canoe team went to compete their canoe with regional civil engineering programs. Dr. Nathan is faculty advisor.



ECE students attended High Performance Computing (HPC) Competition hosted by NASA in 2022. They won 2nd place.

LUNCHEON AWARDS

In April 2022, CoE hosted annual luncheon awards. Five faculty, Dr. Chen, Dr. Beane, Dr. Keel, Dr. Akbar and Dr. Gardiner received excellent teaching award. Dr. Brahma and Dr. Parthasarathy received excellent research and service award. Dean's List students and GPA 4.0 students were recognized. Engineering Alumni Association and College Gifts were given to Graduating Students.



ALUMNI PROFILES

Mr. Jonathan Clark, AIA, NCARB, PE, LEED AP, is President / Chief Executive Officer, Community Solutions by Design, LLC located at Nashville, TN. He is a multi-discipline technical professional that is passionate about planning, architecture, and building systems. He strives to bring a holistic approach to the planning, design, and construction of our built environment. Mr. Clark is involved with design, building code compliance review, condition assessments, and analysis of new and existing building systems. Mr. Clark is a licensed architect currently in the states of Georgia, North Carolina, and Tennessee. Additionally, Mr. Clark is a licensed professional engineer currently in the states of Alabama, Georgia, North Carolina, and Tennessee. He has a Bachelor of Science in Architectural Engineering from TSU and a Master of Architecture from Southern Illinois University.



Don Hardin, President, Don Hardin Group, is a 1990 graduate of TSU with a B.S degree in architectural engineering. Mr. Hardin is licensed as a general contractor in the state of Tennessee, and PMP certified. In 2001, Mr. Hardin founded The Don Hardin Group and presently presides as president & chief executive officer. The Don Hardin Group is a construction consulting and project management firm, which specializes in owner's agent services, located in Nashville, TN. His company has served the city of Nashville, National Museum of African American Music, MARTA (Atlanta), Meharry Medical College, HCA, Nissan North America, Bridgestone/Firestone North America, TVA, and many other regional medical, educational and manufacturing clients. Don has been reported in TSU News in February 2021 as "TSU ALUM WHO DESIGNED, CONSTRUCTED NATIONAL MUSEUM OF AFRICAN AMERICAN MUSIC CONTINUES AS INDUSTRY TRAILBLAZER, PROMOTES STUDENT SUCCESS BY GIVING BACK".



ALUMNI PROFILES

Pamela Franklin is Tennessee Department of Environment and Conservation (TDEC) Environmental Manager. She has been in TDEC since 1999. TDEC is a state government agency tasked with leading effective regulatory programs to protect the quality of Tennessee's air, land, and water. Her service with TDEC began in the Division of Superfund where she conducted preliminary environmental site assessments and provided oversight of remedial activities associated with landfills and brownfield sites. In 2007, she joined the Toxic Substances Program (TOX) in the Division of Solid Waste Management.

She obtained federal credentials to perform polychlorinated biphenyls (PCB) inspections and later completed lead-based paint (LBP) compliance inspection training. She was promoted to manage the program's PCB and LBP compliance sections. Her managerial role includes grant management and supervisory responsibilities in addition to new-hire training. She earned her degree in Civil Engineering from TSU.



Samuel Truesdale is a graduate of TSU with a B.S. in Mechanical Engineering and M.S. in Mechanical Engineering from Purdue University. He is currently the Product Experience Quality Engineer Technical Lead for Meta Reality Labs. He has previously served as the Product Quality Manager at Apple for iPhone and the Chief of Engineering Transformation for the Rolls-Royce Corporation, while serving as the Engineering Education Council Chair. Mr. Truesdale has consistently maintained a focus on the future of engineering education and ties between academia and industry. He is currently the Chair of the TSU, College of Engineering Advisory Board.





SUMMER PROGRAMS

- Boot camps (CS): Python Programming, Mathematics
- Engineering Concept Institute for incoming freshmen
- Two Engineering Exploration Camps for high school students
- National Summer Transportation Institute for high school students
- 3D Printing camp for middle school students
- Verizon coding camp for middle school students

NEW SCHOLARSHIPS

- ***THTC Scholarships (\$110,000)***
- ***USDA Scholarships (\$10,000/each student/yr)***
- ***NSF PROMISE S-STEM Scholarship (\$10,000/each student/yr)***
- ***NSF STAR Scholarship (\$10,000/each student/yr)***
- ***College of Engineering General Scholarship***
- ***Boeing TMCF Scholarship***
- ***P& G Scholarship***
- ***Turner, Stantec Scholarship***
- ***Raytheon Scholarship***
- ***Lockheed Martin Scholarship***
- ***Enbridge Scholarship***
- ***Benesch Scholarship***
- ***TVA Scholarship***
- ***HCA Scholarship***
- ***DHS Scholarship***
- ***Eisenhower Transportation Scholarship***
- ***ASHRAE, TRBA, ASCE, Clark Excellence in Engineering Scholarship***

CoE LEADERSHIPS

Unit	Leader Name	Phone (615)	Email
College of Engineering	Dean Lin Li	9635401	lli1@tnstate.edu
Computer Science Dept	Chair Dr. Ali Sekmen	9635712	asekmen@tnstate.edu
Applied & Industrial Technologies Dept	Chair Dr. Ivan Mosley	9635378	imosley@tnstate.edu
Civil & Architectural Engineering Dept	Chair Dr. Catherine Armwood – Gordon	9635416	carmwood@tnstate.edu
Electrical & Computer Engineering Dept	Chair Dr. M Saleh Zein-Sabatto	9635369	mzein@tnstate.edu
Mechanical & Manufacturing Engineering Dept	Chair Dr. Landon Onyebueke	9635424	lonyebueke@tnstate.edu
College Director of Research	Dr. Amir Shirkhodaie	9635396	ashirkhodaie@tnstate.edu
College Director of Student Services	Dr. Charmaine Dennis	9635400	cdennis@tnstate.edu
College Director of Recruitment	Dr. Charles D. McCurry	9632160	cmccurry@tnstate.edu
College Director of Development	Dr. Catherine Armwood – Gordon	9635416	carmwood@tnstate.edu
College Graduate Coordinator	Dr. Muhammad Akbar	9635392	makbar@tnstate.edu
College Graduate Coordinator	Dr. Tamara Rogers	9631520	trogers3@tnstate.edu

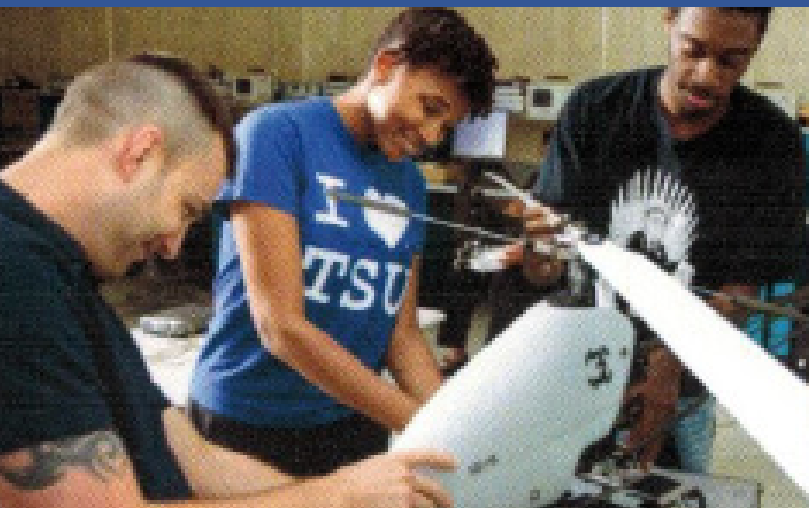


TENNESSEE STATE UNIVERSITY

ENGINEERING LEADERS

ABOUT TENNESSEE STATE UNIVERSITY:

Tennessee State University (TSU) is a comprehensive, urban, coeducational land-grant university, founded in 1912. The 500-acre campus is located in Nashville, the state capital of Tennessee. TSU has nine academic colleges and schools and offers 83 comprehensive degree programs from the baccalaureate through doctorate degrees. It has been designated as "Doctoral/Research University" by the Carnegie Foundation.



Tennessee State University
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