



ENGINEERING COUNCIL OF BIRMINGHAM

proudly presents

67TH ANNUAL ENGINEERING AWARDS BANQUET





2025-26 MEMBER ORGANIZATIONS



Birmingham
Section



Birmingham



Lee J. Styslinger Jr.
College of Engineering
Capstone Engineering Society





ENGINEERING COUNCIL OF BIRMINGHAM

2026 AWARDS BANQUET SILVER SPONSORS



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College of Engineering
Capstone Engineering Society



ENGINEERING COUNCIL OF BIRMINGHAM

2026 AWARDS BANQUET GOLD SPONSORS

hargrove 

The logo for Hargrove consists of the word 'hargrove' in a lowercase, grey, sans-serif font. To the right of the text is a stylized icon composed of three curved, overlapping shapes in green, blue, and yellow.

QUANTA



INVOCATION GIVEN BY



Milton Davis, PE

Vice President of Economic
Development

Quanta Infrastructure Solutions Group



ENGINEERING COUNCIL OF BIRMINGHAM

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67TH ANNUAL ENGINEERING AWARDS BANQUET





ECOB SCHOLARSHIP RECIPIENTS

Brooks Seeley

HIGH SCHOOL:

Trussville High School

UNIVERSITY:

Auburn University

DEGREE:

Electrical Engineering



Nathan Maehlmann

HIGH SCHOOL:

James Clemens High School

UNIVERSITY:

Auburn University

DEGREE:

Civil Engineering



Faith English

HIGH SCHOOL:

Trussville High School

UNIVERSITY:

The University of Alabama

DEGREE:

Biochemical Engineering



Ryan Stone

HIGH SCHOOL:

Hoover High School

UNIVERSITY:

Auburn University

DEGREE:

Mechanical Engineering





UAB THE UNIVERSITY OF
ALABAMA AT BIRMINGHAM.
SCHOOL OF ENGINEERING

Engineering Undergraduate Students of the Year



Sree Nataraj

Biomedical Engineering

4.0 GPA

President's List

Jack Lemons Endowed BME Scholarship, Blazing Forward Scholarship, UAB Presidential Scholarship.

2nd Place in UAB Pitch Your Passion event

BMES President and Founder of UAB Birmingham Engagement Community Service

Student Lab Assistant in Dr. Ho-Wook Jun's BME Lab at UAB



Jessie Phillips

Civil, Construction, & Environmental Engineering

4.0 Engineering GPA

President's List, Dean's List

President, *Chi Epsilon*; Member, *Tau Beta Pi*

Intern, Insite Engineering



Lu McEntyre

Electrical & Computer Engineering

4.0 GPA

President's List

Presidential Recognition Scholarship

Member, Tau Beta Pi

Treasurer, Alabama Junior Classical League

Principal Bassoonist, Alabama Symphony Youth Orchestra



Daniel Hollingsworth

Engineering Design

Engineering Ambassador

Co-Director, Esperanza at UAB

Junior Product Engineering for Hubbell Poiver
Systems



David Bojan

Materials Engineering

4.0 Engineering GPA

American Foundry Society General Summer , Foundry Educational Foundation General Summer Scholarship, Materials Engineering Scholarship

President's List, Dean's List

Tutor, GradePower Learning

Researcher, UAB MPAD



Taha Mohmoud

Mechanical Engineering

Phi Theta Kappa Scholarship

President's List, Dean's List

Intern, NASA Lucy Space Program

Chair, UAB AIAA Chapter

Founder, Safe by Design Youtube Channel



UAB
Undergraduate
Student of the Year

Taha Mohmoud
Mechanical Engineering



UAB THE UNIVERSITY OF
ALABAMA AT BIRMINGHAM.
SCHOOL OF ENGINEERING

Engineering Graduate Students of the Year



Helen Brinyark

Biomedical Engineering

3.93 GPA

Member, *Tau Beta Pi*; Member, *Omega Chi Epsilon*

Recipient of multiple travel awards

Co-author multiple journal articles and presentations

Researcher in the Neural Signal Processing and Modeling Lab at UAB



Mahdi Baghersad

Civil, Construction, and Environmental Engineering

4.0 GPA

President, Institute of Transportation Engineers

Co-authored multiple articles in peer-reviewed journals

Researcher, Pilot Study at UAB Driving Simulator



Sai Akash Chinthakindi

Electrical and Computer Engineering

4.0 GPA

Teaching Assistant, multiple courses

Multiple presentations on programming, neural networks and cloud-computing concepts

Student Kitchen Lead, UAB Commons



George Chambers

Materials Science & Engineering

Blazer Fellowship, Innovation Research
Scholarship

Member, Society of Professional Engineers;
Member, American Foundry Society; Former
President, Materials Advantage

Managing Research Assistant, UAB MPAD



Mohammed Al Amin

Mechanical Engineering

4.0 GPA

Researcher, Machine-Learning Models in aerodynamic fields.

Research design for NASA's Space-Launch System rocket, and assembly lines for Manga International



Andee Beierle

Neuroengineering

Blazer Graduate Research Fellowship,
Skogen-Hagenson Scholarship, Olga Margaret
Thompson Scholarship, and Blazer Gold
Scholarship

Researcher, UAB Radiation Oncology Department and
Pediatric Surgery Department

President, UAB Chapter of *Tau Beta Pi*



UAB Graduate Student of the Year

Helen Brinyark
Biomedical Engineering

UAB THE UNIVERSITY OF
ALABAMA AT BIRMINGHAM.

Thank you!

THE UNIVERSITY OF
ALABAMA[®]

Lee J. Styslinger Jr.
College of Engineering

UA STUDENT OF THE YEAR

Undergraduate

Tony Holeman

Aerospace Engineering

Vice president and astrodynamics team lead
for UASPACE

President of UA's chapter of the American
Institute of Aeronautics and Astronautics

Founded THE UASPACE Newbie Space
Oriented Competition



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Lee J. Styslinger Jr.
College of Engineering

John Brady Bowman

Architectural Engineering

President and design captain of UA's chapter
of the American Society of Civil Engineers
Concrete Canoe competition team

Completed multiple internships and was hired
for another in 2026



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| *Lee J. Styslinger Jr.*
College of Engineering

Tyler Dettmar

Chemical Engineering

National Merit Scholar

His research in Dr. Amanda Koh's lab was presented at the 2025 University Research and Creative Activities conference and led to him co-authoring a study

Member of UA's chapter of the American Institute of Chemical Engineers



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Lee J. Styslinger Jr.
College of Engineering

Humberto Lopez-Garcia

Civil Engineering

President of UA's chapter of the American Society of Civil Engineers and of the UA Steel Bridge team since 2024

Competed in the Steel Bridge competition at the 2025 ASCE Gulf Coast Symposium

Member of the Society of Hispanic Professional Engineers



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Lee J. Styslinger Jr.
College of Engineering

Danni Sumner

Computer Engineering

Corresponding secretary and philanthropy
chair for Theta Tau

Member of the Institute of Electrical and
Electronics Engineers and the Society of
Hispanic Professional Engineers

Baritone player in the Million Dollar Band



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Lee J. Styslinger Jr.
College of Engineering

Shanissee Lee

Computer Science

President of UA's chapter of the National Society of Black Engineers and regional leadership chair for region three

Completed an internship as a systems project engineer at Collins Aerospace

On the STEM path to the MBA



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Lee J. Styslinger Jr.
College of Engineering

Brooke Pyburn

Construction Engineering

On the 2025 competition team for the UA chapter of Associated Builders and Contractors and is the 2026 competition team project manager

Member of the Society of Women Engineers

Completed multiple internships



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Lee J. Styslinger Jr.
College of Engineering

Lucy Bonhaus

Cybersecurity

President of UA's Student Government
Association

Previously represented the Styslinger College
of Engineering as a college senator

National and regional honorable mention
recipient by the National Center for Women
and Technology



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Lee J. Styslinger Jr.
College of Engineering

Megan Summitt

Electrical Engineering

President of UA's chapter of the Institute of
Electrical and Electronics Engineers

Society of Women Engineers member

Presented her research at the 2022 BMES
Annual Conference and the 2023 National
Conference on Undergraduate Research



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Lee J. Styslinger Jr.
College of Engineering

Gabriella Gaston

Environmental Engineering

Vice president of outreach for the Society of Women Engineers

Has worked with Energy Alabama since 2023, visiting Tuscaloosa classrooms to teach renewable energy concepts through hands-on projects

In-house math tutor for the Alabama Panhellenic Association



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Lee J. Styslinger Jr.
College of Engineering

Kelsey Kummerl

Manufacturing Systems Engineering

Completed an industrial engineering internship with Texas Instruments, receiving a full-time job offer

Involved in the Society of Women Engineers, Alpha Omega Epsilon, the Engineering Leadership Team, EcoCAR, Serving Bama and the Astronomical Society



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Lee J. Styslinger Jr.
College of Engineering

Sandra Onyishi

Mechanical Engineering

Global fellow and vice president of Tikkun
Olam Makers UA

Through TOM, collaborates with partners
including UA's Adapted Athletics, the RISE
Center, and the Lakeshore Foundation and
serves as UA EcoCAR's Mobility Challenge Lead



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Lee J. Styslinger Jr.
College of Engineering

Sara Naughton

Metallurgical Engineering

President of the Materials
Advantage/American Foundry Society UA
student chapter

Led a team in the Steel Founders' Society Cast
in Steel competition during her freshman year

Minoring in mathematics



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Lee J. Styslinger Jr.
College of Engineering

**UA STUDENT OF
THE YEAR OVERALL
UNDERGRADUATE
WINNER**

**Sandra
Onyishi**



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College of Engineering

**UA STUDENT OF THE
YEAR**

Graduate

Noah Damilare Oyeniran

Aerospace Engineering and Mechanics

Publications in *Advanced Functional Materials*,
Applied Physics Letters, *Computational
Materials*, and the *AIAA Journal*

Collaborated with global research teams,
including Oak Ridge National Laboratory

Honors include Engineering Ceramics Division
Student & Young Professional Grant and the
Japanese Government MEXT Scholarship



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Lee J. Styslinger Jr.
College of Engineering

Ethan laia

Chemical & Biological Engineering

Published multiple first-author research papers

National conference recognition including the Top Oral Presentation Award at the Southeastern Catalysis Society Annual Symposium and UA's ChBE Outstanding Research by a Doctoral Student Award

DOE SCGSR Fellowship and the Alabama GRSP Fellowship recipient



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Lee J. Styslinger Jr.
College of Engineering

Sarah Ortbal

Civil Engineering

Graduate student advisor for the Young Water Professionals student organization

Secured funding for students to attend water-related conferences and collaborated with The Water Tower nonprofit water research organization

Member of the American Water Works Association and the Water Environment Federation



THE UNIVERSITY OF
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Lee J. Styslinger Jr.
College of Engineering

Minhazul Arefin

Computer Science

Published peer-reviewed work in IEEE Access, Springer conference proceedings, and the International Journal of Advanced Computer Science and Applications

Taught core computing courses as a graduate teaching assistant and lecturer

Leadership roles in student branches of the Institute of Electrical and Electronics Engineers



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Lee J. Styslinger Jr.
College of Engineering

Peter Ikechukwu Udenze

Electrical Engineering

Published in Applied Energy with additional manuscripts under review

A registered practicing engineer with COREN

Contributed to interdisciplinary projects in hydrology and climate resilience, including a solar-powered flood monitoring system supported by USGS, AWI, CIROH and HIF that will be presented at AGU 2025



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Lee J. Styslinger Jr.
College of Engineering

Julia Kendall

Environmental Engineering

Research supported by NSF EPSCoR funding

Helped develop and implement Train the Trainers, which provides middle school educators in Alabama with multimedia teaching materials, hands-on environmental engineering activities and professional development support



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Lee J. Styslinger Jr.
College of Engineering

Arun Niddish Mahendran

Mechanical Engineering

Led interdisciplinary collaborations across electrical engineering and biological sciences within UA, and external partnerships with other institutions

Published and presented work at top robotics conferences and showcased robots in major exhibitions

Mentor for the NSF-funded Research Experiences for Teachers program



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Lee J. Styslinger Jr.
College of Engineering

**UA STUDENT OF
THE YEAR OVERALL
GRADUATE WINNER**

**Julia
Kendall**



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College of Engineering

**Congratulations to our
outstanding students!**



DISTINGUISHED SERVICE
AWARD

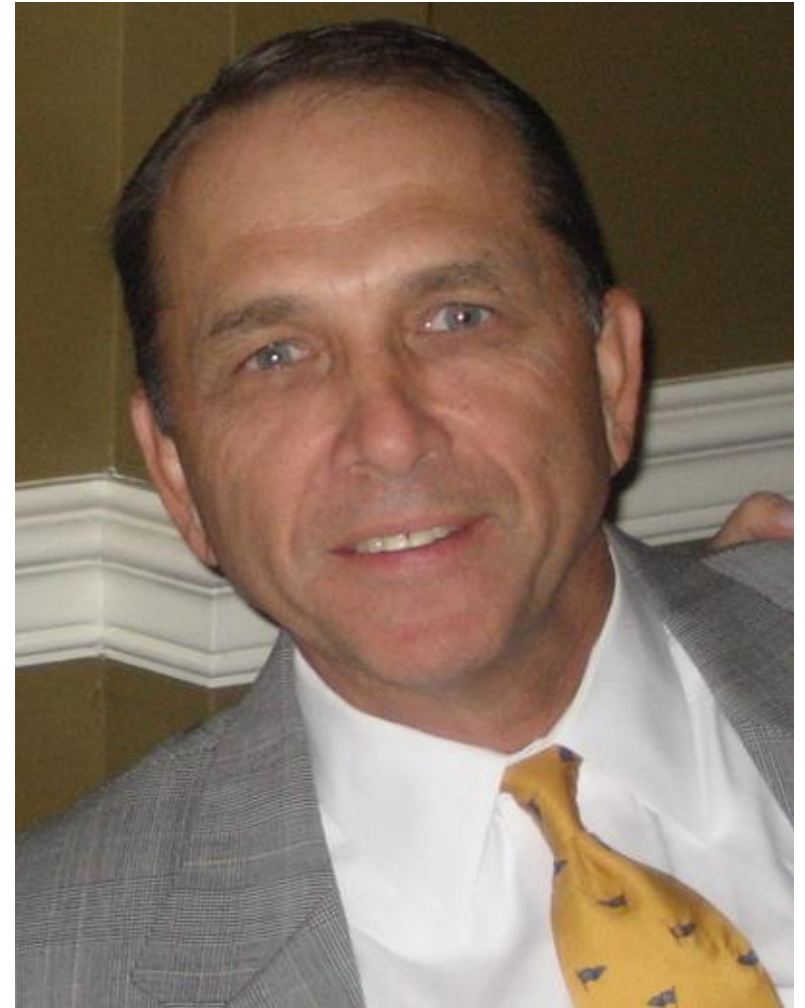
SCOTT BOURGEOIS

NOMINATED BY: ASHRAE

EDUCATION: B.S. in Civil Engineering, Louisiana State University

CURRENT EMPLOYER: Trane Technologies

CURRENT POSITION: Systems Engineer



DR. PATRICK KUNG

NOMINATED BY: IEEE

EDUCATION: Diplôme D'ingénieur from the École Polytechnique in France; Ph.D. in Electrical and Computer Engineering from Northwestern University

CURRENT EMPLOYER: The University of Alabama

CURRENT POSITION: Associate Professor; Associate Department Head for Undergraduate Programs



CHUCK JONES

NOMINATED BY: ISA

EDUCATION: B.S. in Business with a Concentration in Marketing, Huntingdon College

CURRENT EMPLOYER: Process Valve & Instruments;
Trans-Valve

CURRENT POSITION: President



NATHAN REAMEY

NOMINATED BY: The University of Alabama Capstone Engineering Society

EDUCATION: B.S. in Industrial Engineering & MBA, The University of Alabama

CURRENT EMPLOYER: Vulcan Pipe and Steel Coatings, Inc.

CURRENT POSITION: Vice President





DISTINGUISHED SERVICE AWARD

**Dr. Patrick
Kung**



EDUCATOR OF THE YEAR

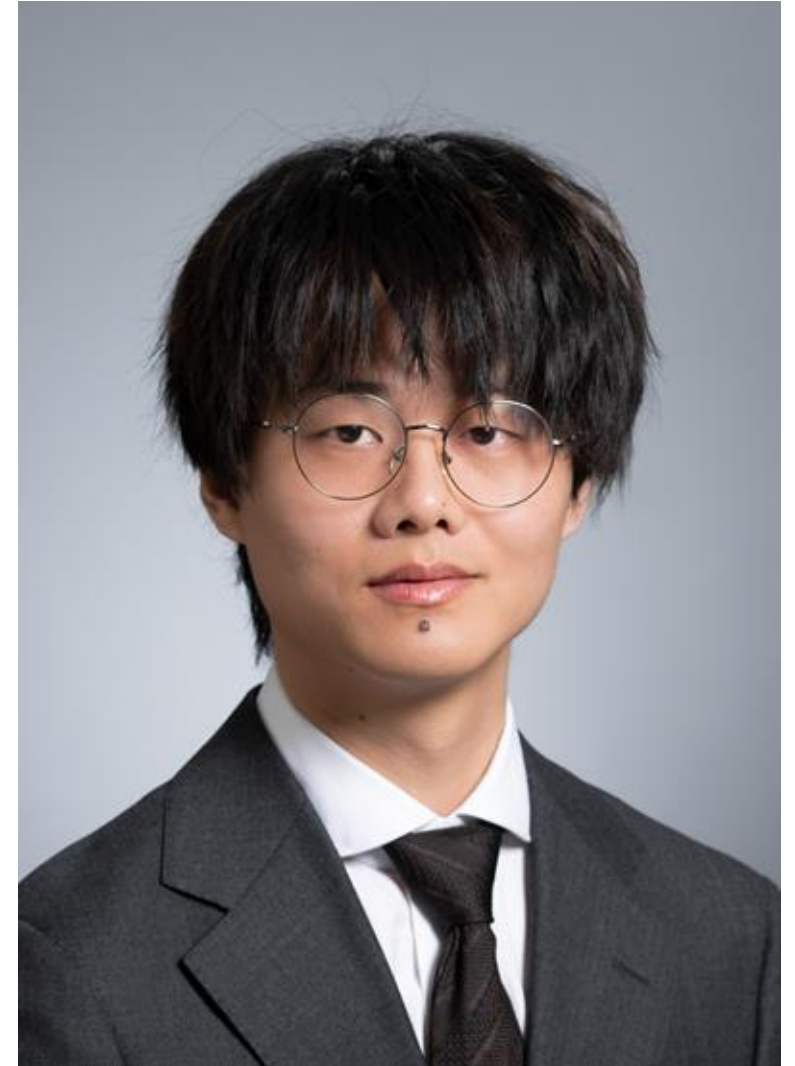
DR. JIALEI SHEN

NOMINATED BY: ASHRAE

EDUCATION: B.S. in Mechanical Engineering, Xi'an Jiaotong University; M.S. in Architectural Engineering, Nanjing University; Ph.D. in Mechanical and Aerospace Engineering, Syracuse University

CURRENT EMPLOYER: The University of Alabama at Birmingham

CURRENT POSITION: Assistant Professor



DR. PETE LUDOVICE

NOMINATED BY: The University of Alabama Capstone Engineering Society

EDUCATION: B.S. in Chemical Engineering, University of Illinois at Urbana-Champaign; Ph.D. in Chemical Engineering, Massachusetts Institute of Technology

CURRENT EMPLOYER: The University of Alabama

CURRENT POSITION: Executive Director, Engineering Entrepreneurship; Adjunct Professor



DR. RAGIB HASAN

NOMINATED BY: IEEE

EDUCATION: B.E. in Computer Science and Engineering from Bangladesh University of Engineering and Technology; M.S. and Ph.D. from the University of Illinois at Urbana-Champaign

CURRENT EMPLOYER: The University of Alabama at Birmingham

CURRENT POSITION: Professor



DR. MARY KATHRYN SEWELL-LOFTIN

NOMINATED BY: SWE

EDUCATION: B.S. and M.S. in Chemical Engineering, The University of Alabama; Ph.D. in Biomedical Engineering, Vanderbilt University

CURRENT EMPLOYER: The University of Alabama at Birmingham

CURRENT POSITION: Assistant Professor





EDUCATOR OF THE YEAR

Dr. Ragib Hasan



YOUNG ENGINEER OF
THE YEAR

DR. JOSEPH CARPENTER

NOMINATED BY: ASHRAE

EDUCATION: B.S. and M.S. in Mechanical Engineering, Mississippi State University; Ph.D. in Mechanical Engineering, The University of Alabama

CURRENT EMPLOYER: The University of Alabama

CURRENT POSITION: Assistant Professor



CHRISTOPHER “DAVID” HARRIS

NOMINATED BY: ISA

EDUCATION: B.S. in Mechanical Engineering, Auburn
University

CURRENT EMPLOYER: SJE

CURRENT POSITION: Senior Product Manager



KATHRYN “KATIE” GUYER

NOMINATED BY: SWE

EDUCATION: B.S. in Civil Engineering, The University of Alabama; M.S. in Civil Engineering, University of South Alabama

CURRENT EMPLOYER: U.S. Army Corps of Engineers

CURRENT POSITION: Civil Engineer



MANNING OWEN

NOMINATED BY: The University of Alabama Capstone Engineering Society

EDUCATION: B.S. in Chemical Engineering, The University of Alabama

CURRENT EMPLOYER: Evonik Corporation

CURRENT POSITION: Manufacturing Engineer





YOUNG ENGINEER OF THE YEAR

Dr. Joseph Carpenter

An aerial photograph of a city street grid. The central focus is a tall, light-colored skyscraper with a distinctive blue, pyramid-shaped roof. Three large white spheres are mounted on the roof's corners. The building has a grid-like facade of windows. Surrounding it are various other buildings, including a large white building with a flat roof to the left and a modern building with horizontal stripes to the right. The streets are visible with some cars and trees.

ENGINEER OF THE YEAR

DR. CHRIS GRAY, PE

NOMINATED BY: ASHRAE

EDUCATION: B.S. and M.S. in Mechanical Engineering, The University of Alabama at Birmingham; Jointly Conferred Ph.D. in Civil Engineering, The University of Alabama at Birmingham and The University of Alabama at Huntsville

CURRENT EMPLOYER: EcoSmart Solution

CURRENT POSITION: CEO



CANDIS G. POLITE

NOMINATED BY: IEEE

EDUCATION: B.S. in Electrical Engineering and
Mathematics, The University of Alabama

CURRENT EMPLOYER: Actalent Services

CURRENT POSITION: Lead Engineer



JASON LEEPER, PE

NOMINATED BY: ISA

EDUCATION: B.S. in Electrical Engineering, University of Arkansas

CURRENT EMPLOYER: Revere Control Systems

CURRENT POSITION: Division Vice President of Engineering



THERESA CARTER, PE

NOMINATED BY: SWE

EDUCATION: B.S. in Civil Engineering, Mississippi State University

CURRENT EMPLOYER: Neel-Schaffer

CURRENT POSITION: Project Manager



RICHARD L. MULLEN

NOMINATED BY: The University of Alabama Capstone Engineering Society

EDUCATION: B.S. in Mining Engineering, The University of Alabama; M.S. in Environmental Management, Samford University

CURRENT EMPLOYER: Drummond Company, Inc.

CURRENT POSITION: President and COO





ENGINEER OF THE YEAR

Theresa Carter, PE



**CONGRATULATIONS TO OUR NOMINEES AND
AWARD WINNERS!**

KEYNOTE SPEAKER



Ralph A. Hargrove

CEO & President | Hargrove Engineers & Constructors



The Right People
in the Right
Place at the
Right Time.™

WHY WAS HARGROVE FOUNDED?

FOUNDED 1995

- Started serving Clients in the attic of the Hargrove home
- Soon realized need for quality engineering, project management & construction services
- Provided services for small projects, incremental automation improvement and turnarounds
- Approach led to accumulation of an impressive list of Clients in multiple industries
- Deep relationships were formed
- Recruited some of the best in the business to join the Team



**105 Ryan Ave.
Mobile, AL**

HARGROVE

Celebrating 30 years in 2025, Hargrove Engineers & Constructors has built a lasting legacy across Alabama and the industries it serves. Founded in Mobile, the full-service project execution firm now employs more than 2,700 teammates across 19 offices nationwide, including three Alabama locations in Birmingham, Decatur, and Mobile.

1996

- **20** Teammates
- **1** Office

2025

- **2,700** Teammates
- **19** Offices

WHAT IS HARGROVE?

- Focus on safety
- Hargrove's One Team Culture
- Teammate-owned company
- Alabama's largest engineering firm
- Serving the manufacturing, process industrial, life sciences, power industries, refining and new energy
- Known for safety leadership, high quality project execution



Alabama's Largest Engineering Firms

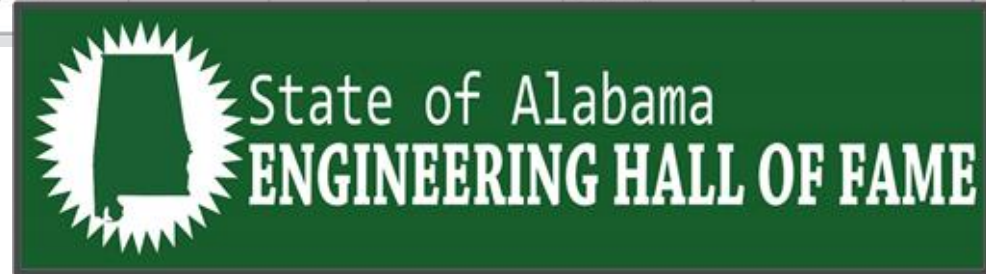
Ranked by number of Alabama employees. DND= Did Not Disclose.

Compiled by
ERICA JOINER WEST

RANK	COMPANY MANAGING PRINCIPALS	ADDRESS PHONE WEBSITE	TOTAL DESIGN FEES IN 2024 TOTAL DESIGN FEES AS OF JULY 1, 2025	ALA. EMPLOYEES TOTAL EMPLOYEES	LARGEST PROJECT UNDER CONSTRUCTION	LARGEST PROJECT COMPLETED IN 2024	CLASSIFICATION	YEAR FOUNDED
1	Hargrove Engineers & Constructors Ralph A. Hargrove	20 S. Royal St. Mobile, AL 36693 251-476-0605 hargrove-epc.com	\$461.7 million \$269.9 million	701 2,700	Biosolids Gasification Plant \$225 million	Greenfield Polyethylene/ Polypropylene Pipe Facility Florida	Engineering	1995



100% TEAMMATE OWNED



ENR
TOP 500
DESIGN FIRM

CHEMICALS

Inc.
5000



Top 10
Engineering
Design Firms



hargrove one team

HARGROVE | at a Glance



#65 TOP 500 DESIGN FIRMS

#1 CHEMICALS INDUSTRY

- 3 Industrial Process
- 5 Pulp & Paper
- 6 Refining
- 9 Pharma
- 11 Petroleum
- 12 Power



	Co.	MOB
Project Management	285	36
Process	235	46
Mechanical & Piping	592	74
Civil, Structural, & Architectural	277	53
Electrical & Instrumentation	460	73
Controls & Automation	125	48
Project Planning & Controls	169	40
Procurement	55	14
Construction Management / Startup	172	20
Document Control / Project Admin	228	58
Health & Safety (HSE) and QA/QC	41	9
Management & Administration	98	58
TOTAL	2737	529



★ 19 Full-service Offices

CAPABILITIES | Hargrove Team of Companies

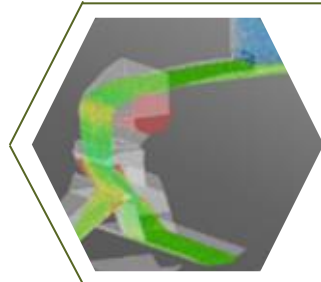


Hargrove
Equipment
Solutions



Hargrove-ca.com

- System Integration & Migration
- Process Safety Management



- Computational Modeling
- Equipment (OEM & Custom) Design & Fabrication
- Materials Handling



HargroveLifeSciences.com

- Engineering, Architecture & cGMP Compliance
- Biotech, Pharma, Consumer Products & Specialty Chemicals



Tormod.com

- Commissioning & Startup
- Maintenance & Reliability
- Environmental, Health & Safety

CLIENT RELATIONSHIPS



HARGROVE | What's Really Important

- The Hargrove Foundation
 - Founded in 2011
 - To streamline and maximize Hargrove's efforts to give back to the communities in which we live and work
 - Funded primarily by Teammate donations, which the company matches dollar for dollar
 - Over \$3MM total giving to date
- harGIVES
 - Hargrove's volunteer organization
 - Allows Teammates to use their skillsets to better our communities
- Hargrove Adaptive Toy (HAT) Project
 - Adapting motorized toy cars for use by mobility-limited children



Hargrove Adaptive Toy Project

- harGIVES
 - Hargrove's volunteer organization
 - Allows Teammates to use their skillsets to better our communities
- Hargrove Adaptive Toy (HAT) Project
 - Adapting motorized toy cars for use by mobility-limited children





hargrove 

The Right People in the Right Place at the Right Time.™

LEADERSHIP AWARD



Ralph A.
Hargrove

CEO & President | Hargrove Engineers & Constructors

SPECIAL THANKS

The Engineering Council of Birmingham is grateful to those who supported ECOB this past year and for your participation in helping make tonight's program a success.

Our sincere thanks to the many organizations and individuals for their donations and in-kind services.





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Lee J. Styslinger Jr.
College of Engineering
Capstone Engineering Society

