

Welcome to the fall edition of the Auburn University Department of Industrial and Systems Engineering Newsletter. My name is Greg Harris and I would like to take this moment to introduce myself as the new chair of the Department of Industrial and Systems Engineering.

I was honored to assume the position in November and my goal is to help continue to guide the growth, research and development of this program that former department chair John Evans led so successfully.

Fall semester was one of great accomplishments for the department and the Samuel Ginn College of Engineering. In October, Auburn University expanded its footprint with the opening of the Research and Innovation Campus in Huntsville.

This state-of-the-art facility will offer the College of Engineering many opportunities for collaboration with government and industry, expand our graduate student offerings, and provide an outstanding venue to host alumni and development events.

Our department, along with the Samuel Ginn College of Engineering, was also recently re-accredited by the Accreditation Board for Engineering and Technology (ABET). The evaluation of our department was extraordinarily positive and I must thank Dr. LuAnn Carpenter, our director of student program assessment and administration, for leading that effort.

Our department continues to have the highest number of online graduate students with 121 enrolled in the fall, 20 of which graduated this semester. This is directly attributable to the continued growth in our online graduate cohort industry partnerships. Engineering companies PeopleTec, Inc., and Jacobs Engineering have both recently signed educational partnerships for their employees to earn our Master of Engineering Management and Master of Science in Industrial and Systems Engineering degrees. These agreements also offer employees the opportunity to choose online graduate programs throughout the college of engineering if those programs better fit their needs.

Additional achievements include the Center for Occupational Safety, Ergonomics, and Injury Prevention having two education and research training programs renewed for five years by the National Institute for Occupational Safety and Health (NIOSH). The Interdisciplinary Center for Advanced Manufacturing Systems (ICAMS) was recently awarded an additional \$8.9 million to continue and expand its work in improving technology adoption with small and medium-sized manufacturers.

Looking forward, we will see some changes in our faculty in 2023. Susan Askew recently joined the department as a professor of practice in systems engineering and is already teaching and developing new courses to expand the systems engineering curriculum. She will be based at the Auburn University Research and Innovation Campus in Huntsville while expanding our research and collaboration opportunities in that area. Professors Sean Gallagher and Jeff Smith will retire in 2023. Although they will be greatly missed, we wish them all the best in their next chapters. This change will also leave several faculty positions to fill. We currently have three faculty search committees working to find outstanding candidates to fill their positions and a new position for advanced manufacturing in the next year.

I am excited about the future of the Department of Industrial and Systems Engineering here at Auburn. We will continue to look for opportunities of growth and development in the year ahead and we appreciate your ongoing support. On behalf of the department, I wish you happy holidays and a joyous new year! Please read more about our latest achievements below.

War Eagle!

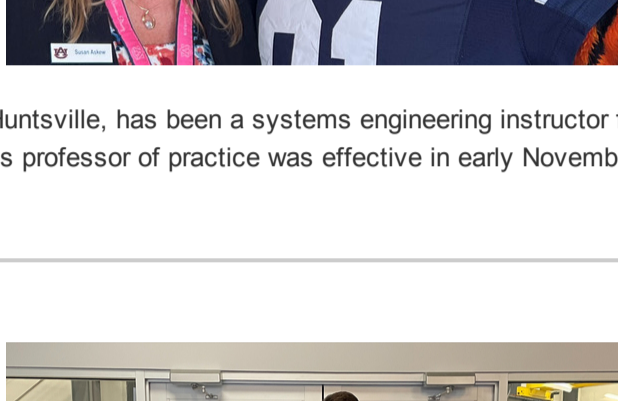
Greg Harris

Industrial and Systems Engineering Professor & Department Chair



Harris named department chair of industrial and systems engineering

Greg Harris has been selected as chair of the Department of Industrial and Systems Engineering at Auburn University. His appointment began Nov. 1, according to an announcement from Steve Taylor, interim dean of the Samuel Ginn College of Engineering. "We have a great situation here. Our faculty are doing great research, we've got great students and the program is growing," said Harris, associate professor of industrial and systems engineering and director of the Interdisciplinary Center for Advanced Manufacturing Systems (ICAMS). "There's going to be a lot of change going on with new faculty joining our department and the focus that I have is really to try to make sure we keep the culture the way we have it. It's a fun place to be and a fun place to work."



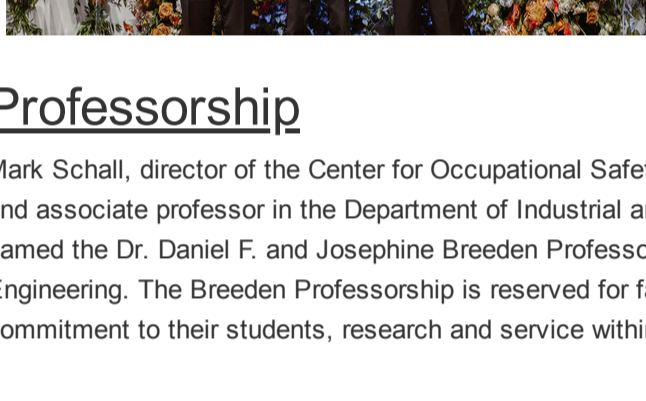
ISE hires Huntsville-based professor of practice

The Auburn University Department of Industrial and Systems Engineering (ISE) is proud to welcome Susan Askew as the department's professor of practice. Askew, whose position will be based at the new Auburn University Research and Innovation Campus in Huntsville, has been a systems engineering instructor for the department since January. Her role as professor of practice was effective in early November.



Auburn competes in inaugural SEC manufacturing competition

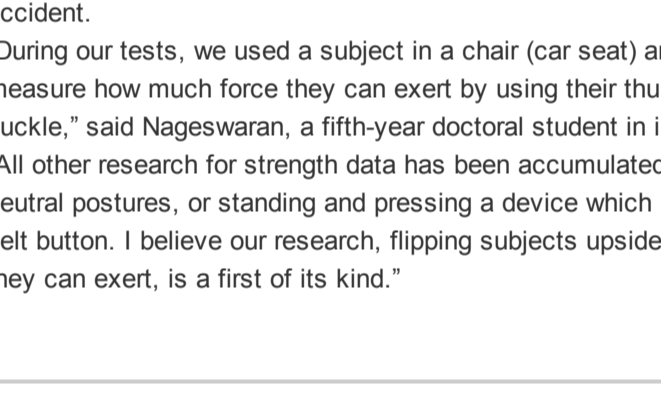
Auburn University is part of four Southeastern Conference (SEC) schools that plan to make the SEC not just a competitive force in football, but in manufacturing as well. Auburn University's Interdisciplinary Center of Advanced Manufacturing Systems (ICAMS) recently competed in the first-ever SEC Manufacturing Competition. The competition also included Mississippi State University, Texas A&M University and the University of Tennessee and was held in Knoxville, Tenn., on Nov. 18.



Industrial and systems engineering professor receives Breden

Mark Schall, director of the Center for Occupational Safety, Ergonomics, and Injury Prevention and associate professor in the Department of Industrial and Systems Engineering, has been named the Dr. Daniel F. and Josephine Breden Professor by the Samuel Ginn College of Engineering. The Breden Professorship is reserved for faculty who demonstrate exceptional commitment to their students, research and service within the college.

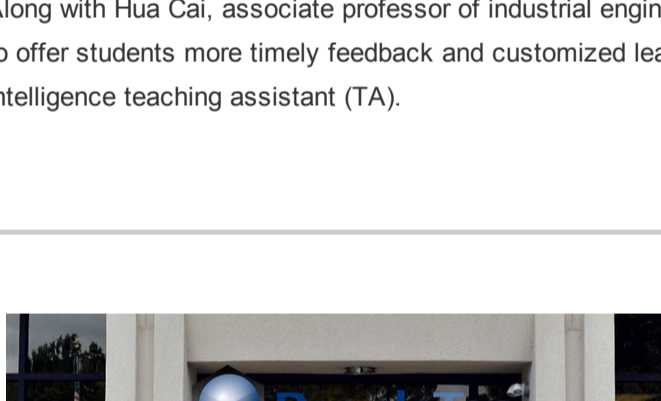
Professorship



ISE graduate student wins university's Three Minute Thesis competition

Shiva Nageswaran is determined to design advanced, safer seat belts that allow passengers the opportunity to easily release themselves in the event of a rollover accident.

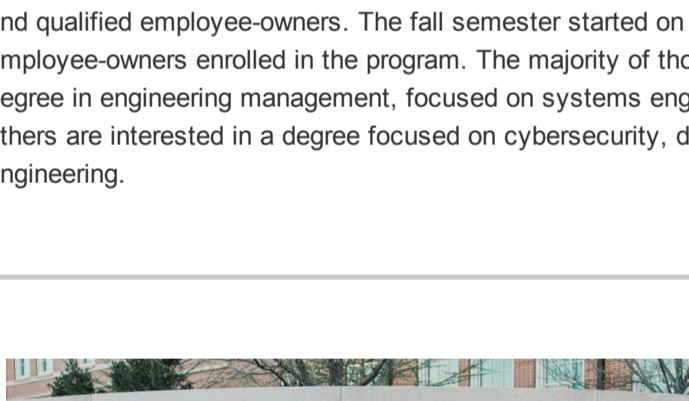
"During our tests, we used a subject in a chair (car seat) and flipped them upside down to measure how much force they can exert by using their thumbs and fingers on the seat belt buckle," said Nageswaran, a fifth-year doctoral student in industrial and systems engineering. "All other research for strength data has been accumulated with people sitting in normal, or neutral postures, or standing and pressing a device which is usually much bigger than a seat belt button. I believe our research, flipping subjects upside-down to measure how much force they can exert, is a first of its kind."



Recent ISE doctoral graduate selected for Innovation Grant Award

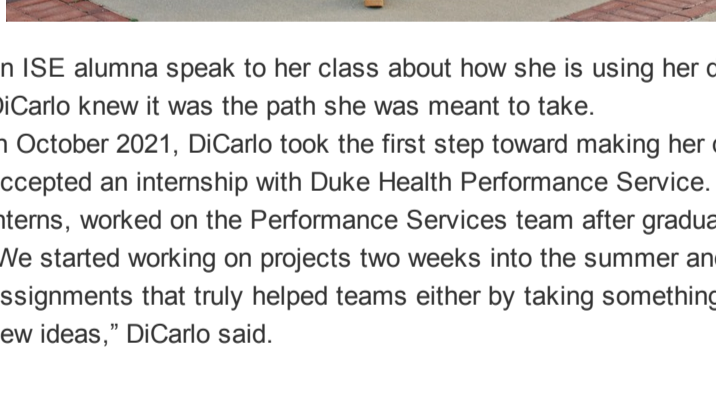
Erhan Karakaya, a 2020 doctoral graduate of the Auburn University Department of Industrial and Systems Engineering, was recently selected for an Innovation Grant Award at Purdue University, where he is a visiting assistant professor.

Along with Hua Cai, associate professor of industrial engineering at Purdue, Karakaya is working to offer students more timely feedback and customized learning assistance through an artificial intelligence teaching assistant (TA).



Samuel Ginn College of Engineering establishes partnership with PeopleTec

The Auburn University Samuel Ginn College of Engineering has partnered with technology company PeopleTec to develop a master's degree cohort program in engineering for interested and qualified employee-owners. The fall semester started on Aug 15, with 11 PeopleTec employee-owners enrolled in the program. The majority of those enrolled are pursuing a master's degree in engineering management, focused on systems engineering or product innovation, while others are interested in a degree focused on cybersecurity, data science or mechanical engineering.

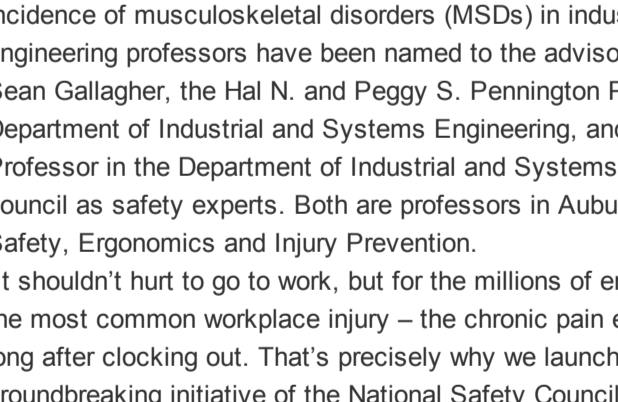


Recent ISE graduate makes impact through healthcare

When recent industrial and systems engineering (ISE) graduate Camille DiCarlo heard an ISE alumna speak to her class about how she is using her degree in the healthcare industry, DiCarlo knew it was the path she was meant to take.

In October 2021, DiCarlo took the first step toward making her dream a reality when she accepted an internship with Duke Health Performance Service. DiCarlo, along with five additional interns, worked on the Performance Services team after graduation in May 2022.

"We started working on projects two weeks into the summer and they were all meaningful assignments that truly helped teams either by taking something off their plate or by bringing in new ideas," DiCarlo said.

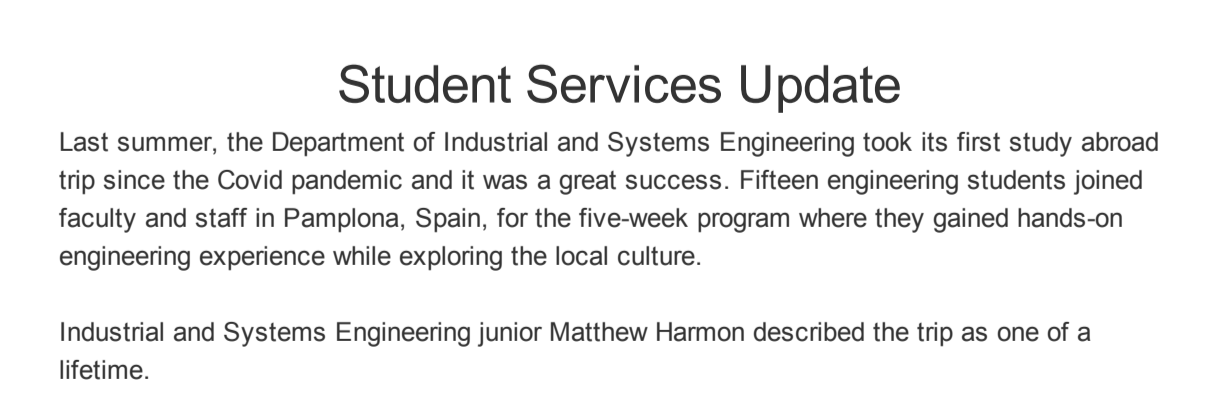


ISE professors named to Amazon, National Safety Council advisory council

In 2021, Amazon and the National Safety Council launched an industry and national effort to reduce the incidence of musculoskeletal disorders (MSDs) in the industry, and two Auburn University engineering professors have been named to the advisory council to support the initiative.

Sean Gallagher, the Hal N. and Peggy S. Pennington Professor in the Auburn University Department of Industrial and Systems Engineering, and Richard Sesek, the Tim Cook Associate Professor in the Department of Industrial and Systems Engineering, were named to the advisory council as safety experts. Both are professors in Auburn University's Center for Occupational Safety, Ergonomics and Injury Prevention.

"It shouldn't hurt to go to work, but for the millions of employees worldwide impacted by MSDs – the most common workplace injury – the chronic pain experienced from these ailments persists long after clocking out. That's precisely why we launched the MSD Solutions Lab, a groundbreaking initiative of the National Safety Council, with the goal of preventing these injuries before they start," said Corinne Towler, director, MSD Solutions Lab, National Safety Council.



Student Services Update

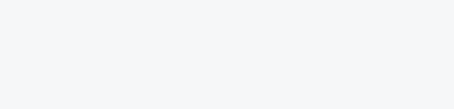
Last summer, the Department of Industrial and Systems Engineering took its first study abroad trip since the Covid pandemic and it was a great success. Fifteen engineering students joined faculty and staff in Pamplona, Spain, for the five-week program where they gained hands-on engineering experience while exploring the local culture.

Industrial and Systems Engineering junior Matthew Harmon described the trip as one of a lifetime.

"Studying abroad in Pamplona, Spain, this summer also helped me graduate on time and was a unique opportunity to work with other ISE students on an international project." Matthew said. "My favorite part of the program was having Pintxos and making new local friends. I loved exploring new places with few tourists!"

Students will once again have the opportunity to join members of the industrial and systems engineering faculty and staff in Pamplona, Spain, this summer. We are excited to announce that students will also have the opportunity to study abroad in Schweinfurt, Germany! Both programs are available to all engineering students with a 2.25 GPA or higher. Students will work on a team project with a European company.

For more details about these programs or additional information about student services, contact Branden Farmer at branden@auburn.edu.

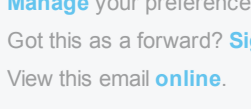


Auburn University Department of Industrial and Systems Engineering
Auburn, AL 36849

Phone: (334) 844-4340

Email: cmn0023@auburn.edu

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