10 TOTAL COURSES // 3 COURSES PER YEAR
August-December, January-April, and May-July
NEW COHORT BEGINS EACH MAY

clemson.edu/cecas/ie/prospective/grad/m-eng/

ABOUT THE PROGRAM
Clemson University’s online Master of Engineering in Industrial Engineering, better known as the “M.Eng.,” was designed specifically for working professionals who want a high-quality, advanced degree in supply chain logistics and want to remain employed full-time. With the knowledge gained in pursuing this degree, students are able to improve and optimize the supply chain wherever they work – manufacturing, distribution, banking, healthcare, tourism...as well as in capital projects and construction. Since the program’s inception in 2008, it has quickly gained acclaim across a wide range of businesses and industries due to its multidisciplinary and industry-focused orientation that was employed during its development. Coursework integrates fundamental concepts and tools from Industrial Engineering, Civil Engineering, and Management. The curriculum provides a diversified knowledge base of information and techniques for improving current supply chain processes, as well as durable tools and concepts that carry over as graduates face the challenges of tomorrow.

To accommodate the demanding schedules of full-time professionals, all classes are offered asynchronously via web-based technologies. Lectures can be downloaded to personal computers, phones, tablets, or other mobile devices for convenient viewing. There are no residency requirements, and since the courses are self-paced and accessible on the web, students can pursue the degree from anywhere in the world as long as a sufficient Internet connection is available.

TIME TO COMPLETION
The program requires a total of 40 months to complete, with students taking three classes during a calendar year (one at a time). Courses require between 60-90 minutes of dedicated time each day so that students can balance pursuing a master’s degree and remaining effective at work, while maintaining a quality home-life. This balanced approach results in an enjoyable learning experience, better retention, and a positive impact on your current job.

PROGRAM COSTS
For current tuition please visit the tuition calculator at: clemson.edu/finance/student-financials/tuition-fees. Textbooks are an additional cost, but faculty have created a “reference library” of books that are used in more than one course.

PROGRAM PREREQUISITES
Minimum admission requirements for the M.Eng. are: 1) an undergraduate degree from an accredited university, 2) engineering calculus or one semester of business calculus plus one semester of statistics and 3) three years relevant industry experience since earning your undergraduate degree.

APPLYING TO THE PROGRAM
An undergraduate degree in engineering is not required to be considered for this program. Applications can be submitted beginning in September at: www.grad.clemson.edu. Qualified candidates will be admitted in the order that their completed applications are received until all openings have been filled.
CLASSES

CORE INDUSTRIAL ENGINEERING FUNDAMENTALS

IE 8510 Descriptive Analytics
Methods for effectively working with data to extract and communicate meaningful information. Excel is the software tool used.

IE 8520 Prescriptive Analytics
Techniques for modeling real-world problems and solving them to facilitate better decision making. Excel is the software tool used.

IE 8530 Foundations of Quality
Discussions of selected topics from quality control, total quality management, and Six Sigma, especially those relating to supply chain analysis and improvement.

IE 8540 Supply Chain and Logistics Modeling I
Application of model building and analytical techniques in the design, optimization and control of the supply chain and other logistics systems. Topics include inventory control, transportation systems, material flow control, and risk analytics.

IE 8570 Health, Safety, and the Environment
A comprehensive examination of the basics of environmental impacts and remediation programs, as well as the issues related to health and safety in various industries, especially construction projects. Topics include reduction of workplace injuries and implementation of an effective safety management program.

CAPITAL PROJECTS SUPPLY CHAIN CONCENTRATION CLASSES

IE 8500 Foundations of Supply Chain and Logistics
Design and control of supply chains with a particular focus on logistics issues from the industrial engineering perspective. Different application domains are considered with special attention given to capital projects and construction.

IE 8550 Supply Chain and Logistics Modeling II
Application of model building and analytical techniques in the design, optimization and control of the supply chain and other logistics systems. Topics include project planning and scheduling, and evaluation of project performance using simulation, with examples from capital projects and the construction industry.

MGT 8560 Business Fundamentals for Supply Chain Management
Principles and techniques of leadership, human resources management, financial management, marketing and economic analysis, particularly as they relate to the capital projects supply chain.

IE 8580 Case Studies in Supply Chain and Logistics
Integration of topics covered throughout the curriculum using a series of real-world supply chain and logistics case studies.

IE 8590 Capstone Design Project
Project-based capstone experience focused on an industry problem or need requiring the application of the engineering methodologies, principles, and tools learned via the program curriculum.

“Fluor Corporation recognizes the immense value supply chain management brings to capital projects. We are pleased to be able to partner with the State of South Carolina to establish what is a truly unique master’s degree program for working engineers and supply chain professionals.”

- Jim Scotti
Former Senior Vice President and Chief Procurement Officer
Fluor Corporation