Engineering Management

The Master of Engineering Management (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr/) (MEM) degree deepens your critical analytical, science and engineering talents — **Think**. It also broadens your crucial management skills — **Lead**. NC State’s Master of Engineering Management degree provides you the skills necessary to manage and succeed in today’s complex technical environments.

The program is 10 courses (30 credit hours) with 5 core courses (https://mem.grad.ncsu.edu/engineering-management-programs/on-campus/) and 5 courses in a concentration (https://mem.grad.ncsu.edu/engineering-management-concentrations/) of your choice. We offer courses in the spring, summer, and fall semesters. The degree can be completed in as little as 3 semesters but longer timelines (https://mem.grad.ncsu.edu/engineering-management-programs/timelines/) are also possible, including part-time options. All degrees are offered on-campus or 100% online.

Concentrations include:

- Advanced Manufacturing (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-advanced-manufacturing-concentration/)
- Analytics (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-analytics-concentration/)
- Entrepreneurship (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-entrepreneurship-concentration/)
- Facilities Engineering (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-facilities-engineering-concentration/)
- General (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-general-concentration/)
- Health and Human Systems (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-health-human-sys-concentration/)
- Professional Practice (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-professional-practice-concentration/)
- Supply Chain Engineering & Management (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-supply-chain-concentration/)

All concentrations include a masters project / practicum course.

The program also offers two (2) graduate certificates on-campus or 100% online:

- Engineering Management Foundations (https://online-distance.ncsu.edu/program/engineering-management-foundations/)
- Engineering Management Analytics (https://mem.grad.ncsu.edu/engineering-management-programs/certificates/analytics/)

The graduate certificates may be earned in conjunction with another masters degree at NC State or completed as a standalone program. Further, these certificates may be transferred into the MEM degree allowing students to start the masters degree program with 40% of the credit hours already completed.

All applicants have the opportunity to apply for student financial aid in the form of an engineering management scholarship. The scholarship application is embedded in the degree application, including the certificates.

Please review our website (https://mem.grad.ncsu.edu/) and Frequently Asked Questions (FAQ) (https://mem.grad.ncsu.edu/faq/) page and contact us at mem-information@ncsu.edu with your questions.

Application Information

If you’re considering the Master of Engineering program, we consider applicants from various science backgrounds, not just engineering. To succeed in most entry-level courses, you should have some background in:

- Mathematics (single variable calculus)
- Statistics (calculus-based statistics)

It’s not mandatory, but you will benefit from undergraduate courses or experience in computer programming, and depending on your concentration area, courses or experience in matrix/linear algebra or other sciences are advantageous. Experience in physical, behavioral, and management sciences (economics, business, accounting) is also desirable.

Application Materials Needed

Prior to applying to the MEM program, gather:

- Three recommendation letters.
- All academic transcripts (undergraduate or graduate programs).
- English proficiency scores.
- 1-2 page personal statement.
- Supplemental questionnaire.

Applicant Information

- **Delivery Method:** On-Campus, Online, Hybrid
- **Entrance Exam:** None
- **Interview Required:** None

Application Deadlines

Please see the department admissions website (https://mem.grad.ncsu.edu/apply/) for application deadlines.

Degrees

- Engineering Management (MR) (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr/)
- Engineering Management (MR): Advanced Manufacturing Concentration (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-advanced-manufacturing-concentration/)
- Engineering Management (MR): Analytics Concentration (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-analytics-concentration/)
- Engineering Management (MR): Entrepreneurship Concentration (http://catalog.ncsu.edu/graduate/engineering/engineering-management-
management/engineering-management-mr-entrepreneurship-concentration/

- Engineering Management (MR): General Concentration (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-general-concentration/)
- Engineering Management (MR): Professional Practice Concentration (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-professional-practice-concentration/)
- Engineering Management (MR): Supply Chain Engineering & Management Concentration (http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-supply-chain-concentration/)
- Engineering Management Foundations (Certificate) (http://catalog.ncsu.edu/graduate/engineering/engineering-management/eng-mgmt-found-cert/)
- Engineering Management Analytics (Certificate) (http://catalog.ncsu.edu/graduate/engineering/engineering-management/eng-mgmt-analytics-cert/)

Faculty
Director
Brandon M. McConnell, Interim Director

Full Professors
Sebastian Heese, Owens Distinguished Professor of Supply Chain Management
John Baugh, Professor
Joseph DeCarolis, Professor
Jingyan Dong, Professor
Yahya Fathi, Professor
Ola Harrysson, Edward P. Fitts Distinguished Professor
Jessica Jameson, Professor
Edward Jaselskis, E.I. Clancy Distinguished Professor
Russell King, Foscue Distinguished Professor
Yuan-Shin Lee, Professor
Maria Mayorga, Professor
Rohan Shirwaiker, James T. Ryan Professor
Daowen Zhang, Professor

Associate Professors
Karen Chen, Associate Professor
Adollo R. Escobedo, Associate Professor
Michael Kay, Associate Professor
Tim Kraft, Associate Professor of Operations and Supply Chain Management
Osman Ozaltin, Associate Professor of Personalized Medicine
Daniel Saloni, Associate Professor
Jeffrey Stonebraker, Associate Professor of Operations and Supply Chain Management
Hong Wan, Associate Professor
Don Warsing, Associate Professor of Operations and Supply Chain Management

Assistant Professors
Xiaolei Fang, Assistant Professor
Leila Hajibabai, Assistant Professor

Associate Research Professor
Christopher D. Rock, Associate Research Professor

Associate Teaching Professor
Meagan Kittle Autry, Associate Teaching Professor
S. Sebnem Ahiska King, Teaching Associate Professor
Fred Livingston, Associate Teaching Professor
Kanton Reynolds, Associate Teaching Professor

Teaching Assistant Professor
Nur Ozaltin, Teaching Assistant Professor

Professor of the Practice
Doug Morton, Professor of the Practice
James Rispoli, Professor of the Practice
Michael Spano, Professor of Practice
Emeritus Faculty
Javad Taheri, Associate Research Professor Emeritus

Associate and Adjunct Faculty
Edwin Addison, Adjunct Professor

Lecturers
Steven DelGrosso, Lecturer
Dan Harris, Lecturer
Dan Kempton, Adjunct Lecturer
Robert Nunez, Lecturer