

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/engineering-management-mr-entrepreneurship-concentration/)

- Engineering Management (MR): Facilities Engineering Concentration (<http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-facilities-engineering-concentration/>)
- Engineering Management (MR): General Concentration (<http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-general-concentration/>)
- Engineering Management (MR): Health and Human Systems Concentration (<http://catalog.ncsu.edu/graduate/engineering/engineering-management/engineering-management-mr-health-human-sys-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*

Adolfo 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*