

# 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](mailto: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

The MEM application requires:

- All academic transcripts (undergraduate or graduate programs).
- Three recommendation letters.
- English proficiency scores (if applicable).
- 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*

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### Full Professors

Sebastian Heese , *Owens Distinguished Professor of Supply Chain Management*

Jonathan Bohlmann , *Professor of Marketing and Innovation*

John Baugh, *Professor*

Joseph DeCarolus, *Professor*

Jingyan Dong, *Professor*

Shu-Cherng Fang, *Walter Clark Chair Professor and University Alumni Distinguished Graduate Professor*

Yahya Fathi, *Professor*

Rob Handfield, *Bank of America University Distinguished Professor of Operations and Supply Chain Management*

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*

Julie Swann, *A. Doug Allison Distinguished Professor and Department Head*

Daowen Zhang, *Professor*

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### Associate Professors

Karen Chen, *Associate Professor*

Adolfo R. Escobedo, *Associate Professor*

Xiaolei Fang, *Associate Professor*

Leila Hajibabai, *Associate Professor*

Tim Horn, *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*

Xu Xu, *Associate Professor*

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### Assistant Professors

S Mohammad Hosseinian, *Assistant Professor*

Jordan Kern, *Assistant Professor*

Ben Rachunok, *Assistant Professor*

Sara Shashaani, *Assistant Professor*

Renran Tian, *Assistant Professor*

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### Associate Research Professor

Christopher D. Rock, *Associate Research Professor*

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### Teaching Professor

Corey Kiassat, *Teaching Professor*

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## 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*

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## Teaching Assistant Professors

Donnie Hale, *Teaching Assistant Professor in Business Analytics*

Nur Ozaltin, *Teaching Assistant Professor*

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## Professor of the Practice

Steven DelGrosso, *Professor of the Practice*

Doug Morton, *Professor of the Practice*

James Rispoli, *Professor of the Practice*

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## Emeritus Faculty

Javad Taheri, *Associate Research Professor Emeritus*

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## Associate and Adjunct Faculty

Edwin Addison, *Adjunct Professor*

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## Lecturers

Ken Gregory, *Lecturer*

Dan Harris, *Lecturer*

Dan Kempton, *Adjunct Lecturer*

Robert Nunez, *Lecturer*