Operations Research Degrees

The program offers three advanced degrees and two minors:

- Master of Operations Research (on-campus and online) (non-thesis)
- Master of Science in Operations Research (thesis)
- Ph.D. in Operations Research
- Operations Research Minor (MS)
- Operations Research Minor (Ph.D.)

OR students have teaching and research assistant positions in many departments, including computer science, electrical and computer engineering, industrial and systems engineering, mathematics and statistics.

What is Operations Research?

Operations research (OR) is a discipline of problem-solving and decision-making that uses advanced analytical methods to help management run an effective organization. Problems are broken down, analyzed and solved in steps:

- Identify a problem
- Build a model around the real-world problem
- Use the model and data to arrive at solutions
- Test the solution and analyze its success
- Implement the solution

Operations Research Graduate Program (OR)

The Operations Research Graduate Program (OR) at NC State University is unique from many other OR programs because of its interdisciplinary nature being shared by the Colleges of Engineering, Management and Sciences. The diversity of its faculty ranges not only from engineering, management and science but also textiles and forestry. The program offers Master’s (thesis and non-thesis) and Ph.D. degrees and proudly welcomes our nation’s veterans and military families. The Military OR Group includes US active duty and military veterans from all Services. It has earned a top 10 military-friendly ranking and was named a Military Times Best College.

Interested?

Contact us to learn more about our students, programs and research.

Don’t get left behind. See all that our Operations Research Program has to offer active duty and military veterans.

google.com/militaryOR

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NC State Proudly Welcomes our Nation’s Veterans and Military Families

- The Military Operations Research Group at NC State includes US active duty and military veterans from all Services and our allies.
- Students work on a variety of real-world problems.
- Develop skills in concentrations such as Data Analytics, Logistics, and Health Care Improvement.
- We understand active duty student timelines and develop individual advising plan to support student success.

LIVING IN RALEIGH

Year after year, Raleigh, NC ranks among the five best places in the country to live and work. With moderate weather (~71°F Avg temp), it’s only two hours from the beach and three hours from the mountains. Raleigh is both welcoming to families and individuals alike and is proud of its well-educated workforce and multi-cultural environment.

NC State University anchors the Research Triangle Park (RTP), one of the country’s largest and most successful high-tech research parks. RTP is the home of many of the country’s leading Fortune 500 companies. There are many leading research and technology institutions only minutes away from the University. This creates a collaborative environment for both business and innovation with NC State.

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The College of Engineering’s newest academic and research building, Fitts-Woolard Hall, is home to the Operations Research Graduate along with:
- The Edward P. Fitts Department of Industrial and Systems Engineering
- Department of Civil, Construction, and Environmental Engineering
- Dean’s Administration Office

The building has been named to honor Edward P. Fitts, Jr. (ISE ‘61) and his wife, Debra, and Edgar S. Woolard, Jr. (ISE ‘56) and his wife, Peggy. Fitts-Woolard Hall honors their commitment to Engineering’s continued growth and progress.

Fitts-Woolard Hall is an innovation hub, catalyzing cross-discipline research and fostering collaboration with industry partners.

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