

Invitation to Math and Science Majors - Consider an MS Degree in Industrial and Systems Engineering

What do Industrial and Systems Engineers do?

Industrial and systems engineers design and operate cost-effective, efficient service and manufacturing systems, for companies, non-profits and the government agencies. Industrial and Systems Engineers apply mathematical models, statistical analysis, economic analysis, biological and physical sciences, and information technology to solve problems. Here are some typical industrial and systems engineering endeavors:

- Optimize supply chain and logistics for e-commerce bookseller
- Organize location and deployment of emergency services
- Monitor and control production processes using data mining and statistical analyses
- Design sustainable products considering the life cycle from raw material to recycling
- Make highly reliable systems for undersea communication
- Analyze port operations to maximize efficiency and security

What are the basic facts about Rutgers Industrial & Systems Engineering?

As a recognized leader in the field, Rutgers Industrial and Systems Engineering department's goal is to provide the highest quality education for our graduate and undergraduate students. We are committed to research, often in collaboration with industry and other disciplines, to advance the state of knowledge and practice in the field of industrial engineering. There are 12 faculty members, 44 Ph.D. students and 40 MS students. Approximately half of the graduate students are fully supported by research and teaching assistantships and fellowships.

I have a BS in Math or Science. Can I apply to the Rutgers Industrial & Systems Engineering Graduate Program?

Yes, if you have two years of calculus and are comfortable with computer programming. The MS program has a few prerequisite courses like linear optimization and probability which you can take while you are an MS student.

What are the job opportunities for graduates of the Industrial & Systems Engineering program?

Our graduates generally have offers with salaries in the range of \$60 - 85,000. Students work in a wide variety of settings from financial institutions to hospitals and the pharmaceutical industry.

Where can I get more information?

This is a personal invitation for you to contact the Industrial and Systems Engineering Graduate Director, Prof. Susan Albin. I am located in the CORE building room 206. Phone 732-445-2238. Email salbin@rci.rutgers.edu. Please check the ISE Graduate Handbook for details on our programs and admission requirements on our website ise.rutgers.edu