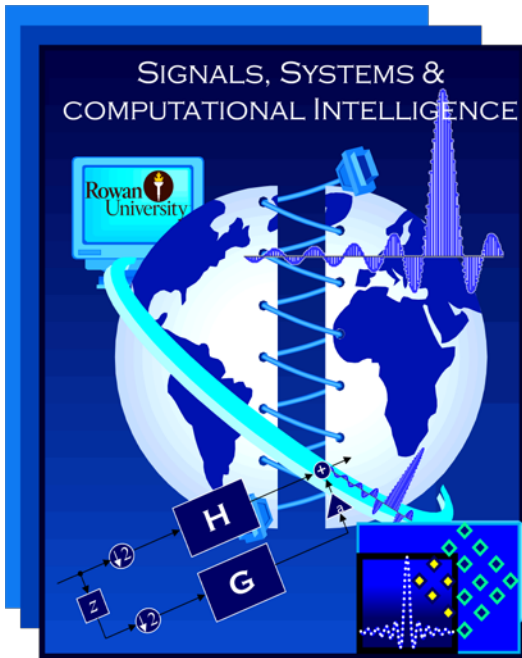


## Graduate Research Opportunities in SIGNALS, SYSTEMS & COMPUTATIONAL INTELLIGENCE towards M.Sc. in Engineering at Rowan University



The Signals, Systems and Computational Intelligence (SSCI) specialization area prepares students to one of the most active research areas that is in the cross roads of electrical engineering and computer science. The broad applications of SSCI into virtually all fields of engineering, as well as to finance, biology, military, atmospheric, physical and even social sciences among others offers graduates of this specialization a wide array of career opportunities. Recent graduates have found immediate employment in such companies as Lockheed Martin, Honeywell, Sony, Army Research Labs, NavSea, NavAir, Mathworks, and/or were admitted to prestigious PhD programs. For those students interested in a Ph.D. after receiving their MS degree, our joint program with Drexel University allow students to continue to work in related areas to their MS work and/or with their Rowan advisors while pursuing a Drexel Ph.D degree.

The specialization consists of 30 credits of academic study, 9 of which usually come from a Master's thesis. Typical duration of study for full time students is one to one and a half years. Students pursuing the thesis option will have the opportunity to work on a faculty identified cutting edge projects, or they can propose their own project ideas.

This specialization program is open to all students with a Bachelor degree in any engineering, math, physical, biological or even social sciences. Students with a non electrical engineering bachelor degree should either demonstrate that they have adequate background in relevant areas (signal processing, probability and

statistics, linear algebra, programming, bioinformatics, etc. depending on their specific area of research interest) or be prepared to take appropriate background courses.

### Electives offered include:

- Advanced Digital Signal Processing
- Wavelets Transforms
- Pattern Recognition / Machine Learning
- Principles of Biomedical Systems & Devices
- Wireless Communications
- Computer Networks
- Bioinformatics
- Biomedical Signal Processing & Modeling
- Image Processing
- Artificial Neural Networks
- Engineering Optimization
- Digital Speech Processing
- Adaptive Filters
- DSP Architectures
- Sustainable Design
- RF Design

### Affiliated Faculty

- Dr. Shreekanth Mandayam
- Dr. Robert Krchnavek
- Dr. Gina Tang
- Dr. Ravi Ramachandran
- Dr. Robi Polikar
- Dr. Peter Jansson

Rowan University is located in Glassboro, NJ, in a beautiful campus, 30 minutes from Philadelphia and one hour from the Jersey Shore. The College of Engineering at Rowan University is renowned for its multidisciplinary, hands-on approach to engineering education. The College has an excellent student to faculty ratio, allowing MS Students to receive significant individual attention from faculty.

### Funding Opportunities

Qualified students may receive graduate research assistantship (GRA) that covers their entire cost of tuition, in addition to providing a monthly stipend. These assistantships are usually funded through external research project grants and require that the student pursue the thesis option. For full consideration for a GRA position, applicants are encouraged to submit their application by February 1. Initial decisions are made by April 1, additional positions – if available are filled on a first come first serve basis among qualified applicants.

### For More Information

<http://engineering.rowan.edu/>

<http://www.rowan.edu/colleges/graduate/>

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