

## Graduate Research Opportunities in

# Sustainability

## the MS in Engineering program at Rowan University

**Affiliated Faculty** in Chemical Engineering (ChE), Civil and Environmental Engineering (CEE), Electrical and Computer Engineering (ECE), Mechanical Engineering (ME) and Geography (GEO).

Dr. Smitesh Bakrania (ME) – Photovoltaics  
Dr. Krishan Bhatia (ME) – Alternative fuels  
Dr. Kevin Dahm (ChE) – Solar Heating  
Dr. Jess Everett (CEE) – Energy Efficiency  
Dr. Stephanie Farrell (ChE) – Process engineering  
Dr. Zanaida Gephart (ChE) – Experimental Design  
Dr. John Hasse (GEO) – Land use  
Dr. Robert Hesketh (ChE) – Process Engineering  
Dr. Kauser Jahan (CEE) – Environmental engineering  
Dr. Peter Jansson (ECE) – Alternative energy  
Dr. William Riddell (CEE) – Windpower  
Dr. Mariano Savelski (ChE) – Alternative fuels  
Dr. C. Stewart Slater (ChE) – Pharmaceutical Engineering  
Dr. Josh Wyrick (CEE) – Water Resources

### Electives offered in

Sustainable Design in Engineering  
Advanced/Renewable Power Systems  
Integrated Solid Waste Management  
Fate and Transport of Pollutants  
Pysico-Chemical Treatment Processes  
Water and Wastewater Treatment and Design  
Automotive Engineering  
Bioprocess Engineering  
Green Engineering Design in the Chemical Industry  
Biochemical Engineering  
Safety in the Process Industries  
Geographic Information Systems  
Operations Research  
Membrane Process Technology  
Separation Process Technology  
Air Pollution Control

**Rowan University** is located in Glassboro, NJ, 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.

**The Sustainability focus** is available to graduate students from all disciplines of engineering at Rowan University. A typical course sequence involves three semesters and one summer of interdisciplinary coursework, plus research that culminates in a Master's Thesis. Students pursuing this focus will develop a foundation in one of four programs (Chemical, Civil and Environmental, Electrical and Computer, or Mechanical Engineering) and sustainability through 24 credit hours of coursework, complemented by research where the student works closely with one or more faculty members. Most projects are externally sponsored, allowing students to receive tuition scholarships and stipends, while working on cutting-edge topics.

**Recent graduates** have gone on to careers in government and industry, or pursued doctorates.

### Funding Opportunities

Research assistantships are awarded competitively, based on funded projects. For full consideration for a research assistant position, we recommend that your application is submitted by February 1<sup>st</sup>. Initial decisions on funding are typically made in April. However, additional offers are sometimes made later, as additional sources of funding are secured.

### Recent Funded Projects

Recycling scrubber caustic, BioX and synthetic fuels, site analysis for wind turbines, green engineering for aquaculture, waste heat recovery, alternative fuels, novel approaches to solar heating, nanoparticles for photovoltaic, design of large PV installation, alternative power trains for automobiles.

*For More Information:*

<http://www.Rowan.edu/engineering>

*Application Materials:*

[http://www.rowan.edu/graduateschool/prospective\\_students/grad\\_application/index.htm](http://www.rowan.edu/graduateschool/prospective_students/grad_application/index.htm)