



# M.S. in Renewable and Clean Energy



## BUILDING A SUSTAINABLE FUTURE



## ABOUT US

The University of Dayton Renewable and Clean Energy (RCL) master's degree program prepares students to design solar, wind, biofuel and geothermal systems and make our buildings and factories more energy efficient by offering energy engineering courses and by providing research, professional engineering and international energy development opportunities.

## OUR STUDENTS

The RCL program attracts top students, including several Fulbright scholars, from the U.S. and around the globe into a tight-knit community of enthusiastic learners. RCL graduates start companies, manage energy programs, become leaders in sustainable engineering and pursue doctorate degrees.

## CONTACT US

[www.udayton.edu/engineering/departments/mechanical\\_and\\_aerospace/grad\\_rcl/index.php](http://www.udayton.edu/engineering/departments/mechanical_and_aerospace/grad_rcl/index.php)

Dr. Kelly Kissock

937-229-2835 [jkissock1@udayton.edu](mailto:jkissock1@udayton.edu)



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## RESEARCH

RCL students have published over 60 peer-reviewed papers on energy efficiency and renewable energy in top conferences and journals including ASHRAE, ASME, ACEEE, *Building and Energy*, *International Journal of Materials and Manufacturing*, *Journal of Applied Energy*, International Conference on Energy Sustainability, etc.

## ONLINE PROGRAM

“The RCL online Masters Program has worked out well for me and has allowed me to advance professionally faster than I thought possible.” Jared Svagera

## GRADUATES

RCL graduates are in high demand in the fast-growing green-energy economy including positions at top engineering firms (Go Sustainable Research, Energy Resource Solutions, Heapy, Plug Smart, Energy Optimizers, Cascade, Enernoc, Navigant, CLEAResult, PNNL, ORNL, and Ph.D. programs (Stanford, Lehigh, etc.)

## COURSES

- RCL 507. Advanced Energy Materials
- RCL 511. Advanced Thermodynamics
- RCL 524. Electrochemical Power
- RCL 533. Biofuel Production Processes
- RCL 556. Energy Systems Engineering
- RCL 557. Building Energy Informatics
- RCL 561. Solar Energy Engineering
- RCL 562. Geothermal Energy Engineering
- RCL 563. Wind Energy Engineering
- RCL 564. Sustainable Energy Systems
- RCL 568. Internal Combustion Engines
- RCL 569. Energy Efficient Buildings
- RCL 571. Design of Thermal Systems RCL
- 572. Design for Environment
- RCL 573. Renewable Energy Systems
- RCL 578. Energy Efficient Manufacturing
- RCL 583. Advanced Photovoltaics
- RCL 590. Special Problems
- RCL 595. Research Project
- RCL 599. Research Thesis