

Jesse Ru

Energy Engineer - MPC Energy, LLC

Media, PA - Email me on Indeed: [indeed.com/r/Jesse-Ru/383817cfb1ac7774](https://www.indeed.com/r/Jesse-Ru/383817cfb1ac7774)

I am searching for a chemical engineering position that allows me to apply my experiences for innovating and drastically improving the manufacturing process for products.

WORK EXPERIENCE

Energy Engineer

MPC Energy, LLC - St. Louis, MO - June 2013 to Present

Identified and implemented \$1.5 million of savings to yearly energy costs for various clients without affecting the quality and quantity of manufactured products and without the usage of capital projects.

- Augmented client's manufacturing culture to have a higher emphasis on energy management and continuous improvement of reducing energy costs.
- Devised a method for clients to accurately determine operating cost reductions due to process changes and capital projects.
- Improved and streamlined company's method of creating energy management HMI displays to be more efficient.
- Improved company's method of creating a process database from various sources of client process and production data through automation.

Teaching Assistant

Cornell University - Ithaca, NY - August 2009 to May 2013

Voted best teaching assistant for 2012 by students, professors, and fellow teaching assistants

- Volunteered to provide a supplemental lecture series to provide an additional resource for struggling students in self-paced physics classes.

Research and Education Outreach Intern

Boyce-Thompson Institute for Plant Science Research - Ithaca, NY - May 2011 to August 2011

Determined the optimal growing conditions for switchgrass in western New York to promote highest possible yields of biomass for biofuel production.

- Developed new classroom labs that promote young student interests in science while providing new research data for scientists.

EDUCATION

Master's in Chemical Engineering

Cornell University - Ithaca, NY

August 2012 to May 2013

Cornell University

August 2012 to May 2013

Bachelor's in Chemical Engineering

College of Engineering - Ithaca, NY

September 2008 to September 2011

SKILLS

Chemical Engineer, Energy Engineering

ADDITIONAL INFORMATION

Computer Skills

- Expert at MS Word, MS Excel, MS Powerpoint, MS Access, Aspen, Osisoft PI, Novatech Totalvision, Wonderware, GE Proficy, Matlab, Java.