DOE SCGSR Award

April 20, 2017

Christine James selected for U.S. DOE Graduate Student Research Award

A PhD student in chemical engineering and materials science at Michigan State University will spend the summer accessing the supercomputing resources of Sandia National Laboratory in Albuquerque after being chosen for a select national honor from the U. S. Department of Energy (DOE).

Christine James is one of only 53 in the country to receive the DOE Office of Science Graduate Student Research (SCGSR) Award. The recognition is based on her academic accomplishments and the merits of her proposed research, “The Effect of Oxygen Vacancies on Manganese Dissolution in High Capacity Cathodes.”

She will spend June – August at Sandia’s facilities in New Mexico, working with Kevin Leung, staff scientist for biomolecular materials.

“While there I will have the opportunity to use supercomputer resources, learn new computational techniques from Dr. Leung and conduct research that will advance my thesis dissertation project,” James explained.

Yue Qi, associate professor of chemical engineering and materials science and James’ PhD advisor, said the SCGSR Award is an excellent opportunity for her.

“Christine will be able to access the state-of-the-art computational facility and network with scientists at the DOE labs.
Her basic research on manganese dissolution mechanism understanding will help to design methods to mitigate Li-ion battery degradation.”

“My goal for the future is to have a career researching materials with energy applications,” James added.

Originally from Novi, Michigan, James earned a bachelor’s degree in chemical engineering from the University of Michigan.

The 53 SCGSR awardees represent 45 universities and will carry out part of their doctoral dissertation and thesis research in 14 DOE national laboratories this summer.

Related Website: U.S. DOE Graduate Student Research Award
Sandia National Laboratory
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