

Public Policy for Green Product Markets PhD Graduate Research Assistantship

The University of Delaware (UD) is seeking a PhD research assistant to support a new interdisciplinary, National Science Foundation (NSF) funded project titled "**A *systems-enabled paradigm shift for modular manufacturing of a circular economy***". The goal of this four-year endeavor is to develop a foundational platform to enable chemical manufacturing from abundant feedstocks to new or existing products via new paths.

Research Project: This research will have two foci: (1) Analysis to guide decision-making for future chemical manufacturing by developing a platform that accounts for the first time for consumer, market and manufacturer behaviors and regulatory requirements and for plant size, modularity, and location and; (2) To investigate and identify the consumer needs market behavior, and regulatory requirements towards introduction of these “green” products, using agent-based modelling (ABM) approaches.

Required Qualifications:

- Highly motivated to explore the relationships between public policy and energy, environment and business strategy in the manufacturing industry
- Training in quantitative methods such as statistics, mathematical modelling and econometrics and willingness to advance such training
- Demonstrated excellence in written communications skills and project management

Preferred Skills and Experience:

- Research experience in agent-based modelling tools and techniques
- Professional experience in relevant manufacturing industry or an environmental regulation environment
- Experience operating in a highly motivated academic research environment

The position is competitive and includes full tuition waiver for and an attractive annual stipend for four years. Matriculation is September (Fall) 2022. Timely application is encouraged and review of applications will commence immediately.

This project will be supervised by Co-PI Dr. Kalim Shah at the Biden School. For questions, and if you intend to apply for a research assistantship, you should contact Dr. Kalim Shah, kalshah@udel.edu. When applying for graduate admission, please note in your personal statement your interest in the ***Public Policy and Green Product Markets*** research assistantship.