EMPOWER: Research and Extension Experiences for Undergraduates
Location: **Purdue University Northwest, Hammond, IN**

PNW

M STATE

Eligibility: All undergraduate students interested in water, energy and environmental systems for sustainable agriculture and rural development (***minorities and underrepresented students are encouraged to apply***)

Topics:

- Food-Energy-Water-Land Nexus for Sustainable Agriculture
- Renewable Energy Integration in Agriculture and Rural Communities
- Process Simulation and Visualization of Water and Energy Integration
- AI-enabled Biomass Feedstock Characterization and Quality Control
- AI-enabled Mobile Augmented Reality Innovation for Coastal Marine Debris Investigation
- Life Cycle Analysis and Environmental Impact Assessment for Remanufacturing Decisions
- Innovative Nutrient-Energy-Water Technologies for Circular Bioeconomy in Agriculture

Activities:

- Hands-on Research Experiences
- Extension and Community Engagement
- Professional Development Workshops
- Symposia and Presentations
- Field Trips and Fun-Filled Weekends

"The REEU program was a great opportunity for me. I was able to gain more experience modeling real world engineering problems while building skills with simulation tools such as Ansys Workbench and Fluent. I would recommend the REEU research program to any student looking to build skills in engineering analysis or to build up relevant experience on their resume."
....Cameron Dunlap

Important Dates

Application Deadline:
March 15, 2024

By email:
VGude@Purdue.edu
Ph: 219-989-2636

Notification of Selection:
March 31, 2024

REEU Program
June 2 – August 2, 2024

Reward: $3,100 (Stipend)
Housing and Food Expenses Covered

Application Materials: (i) Resume, (ii) Letter of Interest including a 0.5-page Research Summary, (iii) Transcript, and (iv) One Reference Letter
(send to **VGude@Purdue.edu**)

Project Team
Dr. Veera Gnaneswar Gude (VGude@Purdue.edu)
Dr. Xiuling Wang (WangX@pnw.edu)
Dr. Chenn Zhou (Czhou@pnw.edu)
Dr. Mohammad Marufuzzaman (Maruf@ise.msstate.edu)
Dr. Junfeng Ma (Ma@ise.msstate.edu)

USDA