



Wind Institute Fellowship 2023-2024

NJEDA
ECONOMIC DEVELOPMENT AUTHORITY

The New Jersey Economic Development Authority

MISSION

- ▶ Grow the state's economy and increase equitable access to opportunity by supporting high quality job creation, catalyzing investment, and fostering vibrant, inclusive community development.
- ▶ Make NJ a national model for sustainable and equitable economic growth.





Wind Institute for Innovation and Training



ACCELERATE DEVELOPMENT OF A
ROBUST AND DIVERSE OFFSHORE
WIND WORKFORCE



CHAMPION RESEARCH AND
INNOVATION THAT UNLOCKS
MARKET POTENTIAL

The Wind Institute is leading the State's offshore wind workforce training, education, research and innovation efforts



New Jersey Wind Institute Programs Underway

WORKFORCE DEVELOPMENT & EDUCATION

- ▶ **Coordinate and partner with education institutions from K-12 to four-year universities to prepare New Jersey offshore wind workforce**
 - Offshore wind activity book for K-6 grade students
 - KidWind K-12 offshore wind curriculum development and teacher training
 - Graduate certificates in offshore wind management at NJIT

- ▶ **Partner directly with industry to address workforce needs**
 - Work with EEW to expand welding and painting training programs at votech schools in South Jersey
 - Rowan College of South Jersey wind turbine tech training programs under development in collaboration with industry partners
 - Atlantic Cape Community College GWO Basic Safety and Sea Survival facility

- ▶ **Identify and address workforce gap opportunities**
 - OSW Workforce Gap Analysis Study
 - Offshore Wind Workforce and Skills Development Grant Challenge provides grants to training programs on high need occupations with a focus on Overburdened Communities





New Jersey Wind Institute Programs Underway

RESEARCH & INNOVATION

- ▶ **Champion research and innovation that unlocks market potential**
 - University Initiatives to support research, curriculum development and expanded learning opportunities at R1 and R2 public universities
 - Annual Wind Institute Research Symposium
 - Wind Institute Fellowship to support university student research and exposure to offshore wind

- ▶ **Develop a Wind Innovation Center**
 - NJEDA issued an RFEI to identify potential partners to develop a Wind Innovation Center- currently in the process of reviewing responses
 - The Center will help accelerate innovation, research and development, and entrepreneurship in NJ's offshore wind industry
 - The Center will focus on: climate-smart modeling, environmental impact assessment, power-to-X and storage, transmission technologies, and OSW component design and production





Wind Institute Fellowship Program

PURPOSE

The Fellowship Program is designed to encourage and support student research in topics that further the development of offshore wind in New Jersey and build student and faculty advisor industry-valued expertise.

The Wind Institute partners with NJ research universities to deliver the Fellowship Program.





Wind Institute Fellowship Program 2023-2024

- ▶ **The pilot program kicked off in Fall 2022 and concluded in Summer 2023**
 - Rutgers University, Montclair State University, New Jersey Institute of Technology, and Rowan University graduate and undergraduate fellows
- ▶ **The Fellowship Program expanded to 8 universities for the 2023-2024 cohort**
 - In addition to the 4 universities from the previous year, we welcomed Princeton University, Seton Hall University, Stevens Institute of Technology, and Stockton University
- ▶ **40 fellows will work with faculty to conduct research on topics in offshore wind, attend cohort meetings, and present findings at the Wind Institute Research Symposium in April 2024**
 - In addition to research funding, fellows will receive a \$1,000 travel/material stipend



Wind Institute Fellowship Program 2023-2024

- ▶ 40% of the fellows are at an undergraduate level, 20% are at masters level, and 37.5% are at Ph.D. level
 - All levels include a variety of majors such as engineering, public policy, education, mathematics, computer science, and more
- ▶ 47.5% individuals identify as male, 45% identify as female, 2.5% identify as transgender, and 2.5% identify as non-binary
- ▶ 55% of the individuals are white, 27.5% are Asian, 10% are black, 2.5% are American Indian, 2.5% are Native Hawaiian/ Pacific Islander, and 10% identified with groups that were not listed
 - 20% identify as more than one race/ethnic group
- ▶ 27.5% are first generation college students in their families



2023-2024 Wind Institute Fellowship Cohort



Monthly Cohort Meetings



▶ **Working with advisor to conduct research**

- Conduct quality research to further offshore wind development in New Jersey



▶ **Monthly Meetings**

- Fellows are expected to attend all monthly events. These will be held on the first Friday of each month



▶ **Present research findings at the Symposium**



Monthly Cohort Meetings

- ▶ Friday, Oct 6: Fellowship Kick Off (NJEDA Newark Office)
- ▶ Wednesday, Nov 1 or Friday, Nov 17: Site visits (Atlantic City Utility Authority)
- ▶ Friday, Dec 1: Bidding and Leasing (virtual)
- ▶ Friday, Jan 19: Permitting and Transmission (virtual)
- ▶ Friday, Feb 2: Stakeholder Engagement (NJ Bioscience Center- New Brunswick)
- ▶ Friday, Mar 1: NJ OSW Projects and Supply Chain Opportunities (NJEDA Trenton Office)
- ▶ Friday, Apr 12: Wind Institute Research Symposium (Kean University)



2024 Wind Institute Research Symposium

- ▶ Please save the date:
- ▶ Date: Friday, April 12, 2024
- ▶ Time: 8:30 am – 4:00 pm
- ▶ Location: Kean University, 1000 Morris Avenue, Union, NJ 07083
- ▶ More details to come
- ▶ Fellowship webpage: <https://www.njeda.gov/wind-institute-fellowship/>