



**Wind Institute Technical Bootcamp at NJIT (9-10 Dec, 2024)**  
**Agile Strategy Lab, NJIT, Newark, New Jersey**



**Bootcamp Day 1**

**Monday (9 Dec 2024)**

8:30 am - 9:00 am	<b>Registration and Breakfast</b>	
	<i>(Session chair: Philip Pong, NJIT)</i>	
9:00am - 9:10am	NJEDA/NJIT	Opening
9:10am - 9:30am	Dan Fatton, NJEDA	New Jersey Offshore Wind Development
9:30am - 10:45am (Course 1)	Dylan Mills, Bluepoint Wind	<b>Offshore Wind Farm Overview:</b> Site selection criteria, key environmental considerations, wind farm design, array design, overview of major equipment in an offshore wind farm, foundations and substructures review, etc.
10:45am - 11:00am	<b>Break, Networking</b>	
	<i>(Session chair: Philip Pong, NJIT)</i>	
11:00am - 12:15pm (Course 2)	Henning Schmitt, Vestas	<b>Generation:</b> Components of a wind turbine generator, power curves and capacity factor, power production, energy yield assessment, wake effects, turbine technology, evaluating wind turbines, etc.
12:15pm - 1:15pm	<b>Lunch, Networking</b>	
	<i>(Session chair: Chad Watson, PSEG)</i>	
1:15pm - 2:30pm (Course 3)	Domagoj Hart, Sebastien Denetiere, RTEi (virtual presentation from France)	<b>Offshore Transmission:</b> AC/DC & DC/DC conversion, major equipment with the OSS, offshore meshed grid
2:30pm - 2:45pm	<b>Break, Networking</b>	
	<i>(Session chair: Chad Watson, PSEG)</i>	
2:45pm - 4:00pm (Course 4)	Leland Rowse, Burns & McDonnell; Travis Barr, PSEG	<b>Onshore Transmission and Construction:</b> Export cable system review, cable transition at landfall, onshore cable system, cable protection and control, cable selection, developing cable route, etc.

**Bootcamp Day 2**

**Tuesday (10 Dec 2024)**

8:30 am - 9:00 am	<b>Registration and Breakfast</b>	
	<i>(Session chair: Philip Pong, NJIT)</i>	
9:00am - 9:05am	NJEDA/NJIT	Opening
9:05am - 9:20am	Chad Watson, PSEG & American Association of Blacks in Energy (AABE)	Participation of Minority and Underrepresented Engineers in Wind Energy
9:20am - 9:25am	John Pelesko, Provost & Senior Vice President, NJIT	NJIT on Wind
9:25am - 9:35am	Christine Guhl-Sadovy, President, NJBPU	New Jersey Clean Energy Plan
9:35am - 10:50am (Course 5)	Paulina O'Connor, New Jersey Offshore Wind Alliance	<b>Community and Environmental Management:</b> community engagement, socio-economic impacts, stakeholder engagement, conflict resolution, environmental impact assessment, decommissioning and site restoration
10:50am - 11:05am	<b>Break, Networking</b>	
	<i>(Session chair: Philip Pong, NJIT)</i>	
11:05am - 12:20pm (Course 6)	Edoardo Sabatino, Climate-Kick	<b>Offshore Wind Farm Project Management:</b> financial analysis, market trends, cost-benefit analysis, return on investment, funding and financing, public-private partnerships, investment vehicles, supply chain, cost management, power purchase agreements (PPAs), risk management
12:20pm - 1:20pm	<b>Lunch, Networking</b>	
	<i>(Session chair: Chad Watson, PSEG)</i>	
1:20pm - 2:35pm (Course 7)	Andy Powers, Ahmed Mousa, PSEG	<b>Energy Storage System for Renewable:</b> types of energy storage technologies, battery energy storage systems, technical specifications and performance metrics, integration with renewable energy sources, control and management, safety and reliability
2:35pm - 2:50pm	<b>Break, Networking</b>	
	<i>(Session chair: Chad Watson, PSEG)</i>	
2:50pm - 4:05pm (Course 8)	Chad Watson, Rafael Wilches, PSEG Rahul Anilkumar, Quanta	<b>Grid Interconnection and Integration:</b> Introduction to ISOs/RTOs, grid interconnection process, review of PJM studies, technologies to enable integration of offshore wind generation
4:05pm - 4:10pm	Philip Pong, NJIT	Closing
Examination (online, take-home)	Administered by Philip Pong (NJIT)	Attendees will take an exam comprising of ~40 multiple choice questions from all the courses and a survey through the online portal