

## ATTACHMENT B: DESCRIPTION OF EXISTING PROJECTS

The following provides brief descriptions of existing and planned offshore wind workforce training and educational programs supported by MassCEC grants to date (“Existing Programs”). The press releases of the [2019](#), [2020](#), [2021](#), and [2022](#) awards can be found on [our website](#). For more information on any of these projects, please contact [offshorewind@masscec.com](mailto:offshorewind@masscec.com).

[Martha's Vineyard Center for Education & Training \(MV CET\)](#): MV CET’s mission is to provide Vineyard Residents and workforce with experiences that enable them to thrive through skill building, professional development, credentialing, and life-long learning. MV CET has been awarded three grants by MassCEC:

- **2019**: To partner with Bristol Community College to provide Martha’s Vineyard residents an on-island Offshore Wind Technician Certificate program. Completion of the Certificate program will give participants the skills and credentials necessary for jobs in operations and maintenance of offshore wind farms located south of Martha’s Vineyard and beyond.
- **2020**: To expand the Offshore Wind Technician Certificate program to encourage high school dual enrollment in the program and to explore options for incorporating marine science and technology programming into Martha’s Vineyard Regional High School’s Career and Technical Education Program.
- **2021**: To launch a 24-month diversity outreach project dedicated to increasing the numbers of women and girls in offshore wind training and education. The project includes a community-wide, multi-level promotion campaign with financial support for Wind Turbine Technician Certificate, expanded high school STEM programming, and listening sessions.

[A.I.S., Inc. \(AIS\)](#): AIS provides fully trained protected species observers and certified inspectors for harbor and river dredging operations. MassCEC has awarded AIS one grant:

- **2020**: To expand their existing Protected Species Observers training program to include an on-the-water training component and to develop a new training program that improves offshore wind Operations and Maintenance professionals’ understanding of regional protected species.

[Franklin Cummings Tech](#): (FC Tech) is an urban college serving the Boston region with a commitment to student success and career readiness. FC Tech has received two MassCEC grants:

- **2021**: To partner with UMass Lowell and examine if an increased level of financial and academic support for women, people of color, and LGBTQIA+ communities will increase diversity in associate and bachelor's degree training programs for jobs in the Offshore Wind Workforce. Training programs for both technician and engineering level positions will be provided.
- **2022**: To partner with VinciVR to develop VR simulations for offshore wind construction and installation jobs as well as create refined simulations for direct drive turbines to be used in engineering classes. BFCIT and VinciVR will also purchase VR headsets and laptops so they can offer Renewable Energy Bootcamps for students in Gateway Cities or EJ populations.

[Building Pathways, INC. \(BPI\)](#): BPI provides a gateway for low-income area residents in underserved communities to access family-sustaining careers in the construction industry through apprenticeship preparedness training programs. BPI was awarded one MassCEC grant:

- **2021**: To provide four 200+ hour Pre-Apprentice General Construction training programs to women, BIPOC, transitioning veterans, disabled, disconnected or at-risk youth, and LGBTQIA+ community member participants for opportunities in the building trades industry with a focus on opportunities in the offshore wind industry.

[Bristol Community College \(BCC\)](#): Bristol's National Offshore Wind Institute (NOWI) offers basic and advanced safety and technical training programs to prepare workers for jobs in construction, deployment, operations, and maintenance of offshore wind farms. Bristol was awarded four grants by MassCEC:

- **2019**: To establish basic safety training (BST) and basic technical training (BTT) to Global Wind Organization (GWO) standards on campus. These trainings are part of a larger initiative at BCC to develop NOWI, which will provide a variety of trainings, certifications, and educational offerings, including a certificate program and an Associate's degree relating to offshore wind.
- **2020**: To expand essential training and health certification programs at NOWI. Additionally, to conduct a feasibility study to understand the need and interest for further safety and technical training programs. Finally, to develop a Basics of Offshore Wind program.
- **2021**: To create a communication campaign and neighborhood outreach strategy in partnership with Old Bedford Village. The project will be supported by an asynchronous orientation to offshore wind course focused on entry into the sector. The project will focus on residents of New Bedford, BIPOC, women, veterans, under- and unemployed, and workers seeking to transition into offshore wind from other industries.
- **2022**: To construct the National Offshore Wind Institute (NOWI), the first purpose built offshore wind training facility in the nation. The NOWI will offer industry training programs, innovation and entrepreneurship programs, educational and virtual reality simulation all designed to train the local and regional workforce for occupations in the offshore wind industry.

[Browning the Green Space \(BGS\)](#): BGS is a non-profit focused on increasing the participation and leadership of Black and Brown people and of women in the clean energy space. BGS has received one grant by MassCEC:

- **2022**: To partner with Xodus Group to establish a post-secondary degree training program focused on placing individuals from priority groups in a two-year, paid program working on real-life offshore wind energy projects.

[Cape Cod Community College \(CCCC\)](#): CCCC is a two-year community college located in West Barnstable, Massachusetts. MassCEC has awarded CCCC one grant:

- **2019**: To develop and deliver a suite of courses introducing students and workers to careers in offshore wind. These offerings include a non-credit *Offshore Wind 101* course and *Power of Wind* workshops for middle school students that raise awareness and interest in renewable energy technology and careers at an early stage. The offerings also include a three-course

Sustainable Energy Certificate Program, which requires the courses *Introduction to Solar Energy* and *Renewable Energy, Climate, and Careers*.

[Fishing Partnership Support Services \(FPSS\)](#): FPSS is a non-profit support service organization dedicated to improving the health, safety and economic security of commercial fishermen and their families.

MassCEC awarded FPSS one workforce grant:

- **2020**: To work with the Commercial Fisheries Center of Rhode Island and the University of Rhode Island Fisheries Center to develop industry-standardized professional requirements for the safety and inspection of vessels for use in the offshore wind industry, which will allow interested fishermen to upskill and retrain for important offshore wind job opportunities that can augment their fishing incomes.

[Gloucester Fishermen's Wives Development Program \(GFWDP\)](#): GFWDP is a non-profit organization with a goal to promote a healthy environment and a just economy that allows local and family-owned businesses to thrive in a changing world. GFWDP has received one MassCEC grant:

- **2020**: To work with the Massachusetts Fishermen's Partnership and the Northeast Maritime Institute to recruit and pre-qualify commercial fishermen for enrollment in dedicated training and certification programs at the Northeast Maritime Institute.

[International Brotherhood of Electrical Workers \(IBEW\) Local Union #223](#): IBEW aims to bring fair wages, safety on the job, and trained workers to the electrical industry. IBEW was awarded one MassCEC grant:

- **2020**: To establish a high voltage and fiber optic training program for skilled electricians at the IBEW's training facility in Taunton, in partnership with JDR Cables, a cable supplier for the Vineyard Wind 1 project.

[International Association of Bridge, Structural, Ornamental, and Reinforcing Iron Workers, Local 7](#): Local 7 Iron Workers is a Massachusetts labor union located in Boston, MA. Local 7 Iron Workers have received one grant from MassCEC:

- **2022**: To support their members and apprentices by paying for them to acquire GWO Basic Safety Training certification and establishing a tool training program for members to obtain their Hytorc tool certification.

[Massachusetts Maritime Academy \(MMA\)](#): MMA is a public college located in Buzzards Bay, MA and offers courses in maritime-related fields. MMA was awarded two grants by MassCEC:

- **2017/2018**: Two tranches of funding for fabrication and installation of a crew transfer training structure to simulate the fixed wind turbine base for crew transfer training. The structure allows workers to train in the safe transfer from floating crew transfer vessel.
- **2019**: To support the establishment Global Wind Organisation (GWO) Basic Safety Training (BST) for offshore wind, and the development of an *Introduction to Offshore Wind* course for Academy cadets. MMA began offering GWO BST in 2019, making it the first in the nation to provide the Sea Survival module, which is required for working on wind projects offshore.

- **2020:** To conduct a feasibility study to understand the need, interest, and business case for developing and delivering a crew transfer vessel operator training program, specialized helicopter transfer training, and Global Wind Organisation (GWO) Advanced Rescue Training.
- **2022:** To develop and offer a 40-hour Basic Seamanship course to the Piledriver's Union Local 56, and to develop and offer Global Wind Organisation (GWO) Basic Technical Training, Enhanced First Aid, and Advanced Rescue Training. GWO courses are an industry standard required for many offshore workers.

[Pile Drivers and Divers, Local 56:](#) Pile Drivers and Divers, Local 56 represents over 400 pile drivers, divers, burners, riggers, bridge, wharf, and dock builders in MA. Pile Drivers and Divers, Local 56 was awarded one MassCEC grant:

- **2019:** To sponsor trade union members to get certified in Global Wind Organisation (GWO) Basic Safety Training (BST) at the Massachusetts Maritime Academy.

[Self Reliance:](#) Self Reliance focuses on increasing awareness of energy issues within the region, facilitate properly sited renewable energy system installation, and executing training workshops that help to increase expertise related to renewable energy. Self Reliance has been awarded one MassCEC workforce grant:

- **2021:** Self-Reliance will develop and run a 5-day, 40-hour experiential learning program that introduces the offshore wind industry to K-12 educators and students from Gateway Communities across Massachusetts through a MassCEC grant. The program centers around the KidWind curriculum.

[Southeastern Massachusetts Building Trades Council:](#) (SMBTC) The SE Mass Building Trades Council represents union building trades workers across southeastern Massachusetts. They have received one grant from MassCEC:

- **2022:** To partner with Building Pathways South to provide one hundred union members with GWO Basic Safety Training or an Offshore Wind 101 course. One hundred union members will also have the opportunity to participate in a DEIJ training course.

[University of Massachusetts, Amherst:](#) UMass Amherst is a public land-grant research university in Amherst, Massachusetts. UMass Amherst has received three grants from MassCEC:

- **2019:** To complete initial design and development of an online offshore wind professional certificate program for graduates and working professionals. The certificate program launched in Fall 2020.
- **2021:** To attract Priority Group members to its existing Offshore Wind Professional Certificate Program through relationships with multiple university STEM programs. Recruitment will initially focus on BIPOC/ethnic minorities. Subsequent recruitment will include veterans, individuals in Gateway Cities/EJCs, and indigenous populations, and women.
- **2022:** To expand its Offshore Wind Professional Certificate program through increased outreach to priority groups, increased scholarship funding, curriculum enhancements, and industry support outreach. Also, to develop an undergraduate offshore wind overview course for UMass Amherst students.

[University of Massachusetts, Dartmouth](#): UMass Dartmouth is a public research university located in Dartmouth, Massachusetts. UMass Dartmouth has received one grant from MassCEC.

- **2022**: To develop a paid internship and experiential learning program for students in offshore wind relevant programs at UMass Dartmouth and Bristol Community College. Internship opportunities and capstone project topics will be determined by an advisory board comprised of industry, higher education, and workforce development practitioners.

[University of Massachusetts, Lowell \(UML\)](#): UML is a public research university located in Lowell, Massachusetts. UML has received two grants from MassCEC:

- **2020**: To build on existing offshore wind workforce research through analysis of the local labor market and current university-level educational offerings. Additionally, to develop educational content and associated credentialing to fill existing gaps.
- **2022**: To develop and provide an OSHA 30-hour construction safety and general industry training to university students, offshore wind supply chain companies, and participants in local workforce development career centers.

[VINCI VR \(VINCI\)](#): VINCI VR works to ensure workforces can improve training outcomes by leveraging the full potential of highly realistic simulated training and to significantly lower the barrier of entry for the creation of virtual reality content. VINCI has been awarded one MassCEC grant:

- **2020**: To certify two Global Wind Organisation (GWO) courses (Basic Technical Training-Installation and Slinger Signaler) using virtual reality simulations in partnership with Siemens Gamesa Renewable Energy, an offshore wind turbine manufacturer.

[Xodus Group \(Xodus\)](#): Xodus Group is an energy consultancy organization. Xodus has been awarded one MassCEC workforce grant:

- **2021**: To develop and conduct a workforce program designed to provide underrepresented groups with insight on career opportunities in offshore wind, in partnership with [Browning the Green Space](#). The program will demonstrate the pathways to industry employment through two work experience routes: internships and pre-apprenticeships. Target Priority Groups include BIPOC, women, students in Chapter 74 vocational technical education programs, and unemployed and low-income individuals.