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## Joseph O. Roy Internship 2026

### Engineering Intern

The goal of this internship is to develop a working knowledge of electrical and mechanical engineering systems in both conventional and renewable generation, as well as provide the candidate with a better understanding of the complex interconnected systems that make up our electric grid, and the changes this grid is currently undergoing.

#### **Intern Responsibilities:**

- Support Engineering and Generation Asset engineers with digitizing, updating and creating drawings and documentation from AOB drawing file room as needed. Work using AutoCAD and PDF files to update and create new drawings based on markups and revisions from MMWEC engineering and the power plant's technical personnel.
- Assist in documentation management to support Stony Brook Energy Center upgrades in addition to MMWEC engineering projects.
- Assist and support engineers on site visits with environmental review(s) and preparation of permit, construction and as-built drawings.
- Write formal specifications, equipment checklists, and other bid documentation as needed.
- Assist the Engineering Supervisor and Senior Engineer in project scheduling and tracking. Coordinate with project vendors and site contractors and installers as directed by the Senior Engineer.
- Assist with project completion and closeout for open MMWEC projects. This includes documentation and drawing management and review, in addition to developing project closeout materials, submittals and equipment O&M manual and binders for the project.
- Attend regular DMR (Design Modification Request) meetings with Stony Brook Energy Center staff and assist in research to address areas for improvement regarding equipment and/or operational issues that are mentioned during these meetings.
- Review current office building's energy systems (solar, battery storage and mechanical systems and controls (boilers, chillers, pumps and HVAC equipment). Research newer technology and equipment alternatives and provide a detailed report with calculations, recommendations, equipment cut sheets for engineering review. Focus on increasing equipment efficiencies, equipment improvements and upgrades for building HVAC equipment. Obtain equipment pricing from manufacturer reps and MMWEC distributors. Calculate new equipment costs, expected yearly cost savings and payback timeframe.
- Attend Emerging Technology Team meetings and provide research and cross functional support to assist team members in analyzing and preparing documentation of newer technologies for the electric power and energy sectors that could change the way power is generated, delivered and/or used.
- Provide support to the Berkshire Wind Technician and climb team, including on- site support of existing wind turbines. Assist the Senior Engineer with preliminary drawings, specifications and documentation for MMWEC's other distributed generation projects.