MIT MASSACHUSETTS INSTITUTE OF TECHNOLOGY

MISTI

Company/lab name: Iberdrola

Company/lab website:
www.iberdrola.com/
www.neoenergia.com

Name of the Project:
Performance improvement based on digital solutions

Area: Renewables

Duration / Location: 12 weeks / Brazil

Company/Lab Description:

Iberdrola is a multinational group leading the energy sector: the company produces and supplies electricity to some 100 million people in the countries in which it operates. Furthermore, **the company has become the leader in clean energy** — Iberdrola is the first renewable producer amongst European utilities and the cleanest power company in the USA, with almost zero emissions—, **it is pioneering the rollout of smart grids and has an energy storage capacity in excess of 4 GW.** In anticipation of the energy transition, Iberdrola has committed to sustainable solutions that require greater **electrification of the global economy**: more clean energy, more storage capacity, more backup power, more and smarter grids, and **more digitization**. **Neoenergia**, part of Iberdrola Group, **is a Brazilian electricity company,** leader in Latin America and the biggest Brazilian distribution company (considering the numbers of clients), it serves more the 13 millions clients in five different states (São Paulo, Mato Grosso do Sul, Bahia, Recife e Rio Grande do Norte), across its 585,000 km² concession area.

Project Description and Goals:
- Understand Iberdrola big data approach and solutions for performance analysis for a massive number of Wind Turbine Generators [>10000 WTGs worldwide in 12 countries, onshore + offshore]
- Test some real cases with operating fleet to better understand the potential of analytics combined with O&M management
- Take part in the development of new tools such as mobile solutions for WTGs maintenance management

Intern Role Description:
Digital solutions assistant for renewable asset management

Profile: Skills & Experience Pre-required:
Engineering / Mathematics / TI, willing to learn, open minded, fluent in English and/or Spanish and/or Portuguese