Mexico Iberdrola Projects

Company/lab name: Iberdrola
Company/lab website: www.iberdrola.com
Duration / Location: 12 weeks / Mexico

Company Description:

Iberdrola is a multinational group leading the energy sector: in Mexico is the first private power supplier. 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 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. The opportunities in Mexico are very relevant given that there is a new energy reform and new electricity market, therefore many competitors are coming to this specific emerging country.

Project: ENERGY MARKET ANALYSIS AND OPTIMIZATION - COMMERCIAL

Project Description and Goals:

- Propose a sustainable and efficient commercial strategy based on the energy delivered to customers, products and market regulation
- Programming, including analysis of information to determine an optimized delivery of energy to customers
- Presentation of strategic proposals including top management audience
- Opportunities identification and analysis
- Follow up of competitors
- Follow up market transactions and regulatory

Intern Role Description:

All duties related to coordination and execution of commercial strategy in a global company

Profile: Skills & Experience Pre-required:

Business Administration Degree/Engineer, Microsoft Office, Background and interest in programming.

*** Spanish proficiency is desirable.

***All expenses covered (flight, health insurance, stipend)

***For more information or to apply, contact MIT-Mexico, Griselda Gomez, gomezg@mit.edu
Spain Iberdrola Projects

Company/lab name: Iberdrola
Company/lab website: www.iberdrola.com
Duration / Location: 10-12 weeks / Madrid

Company 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.

Project #1: Competitive Intelligence Global Analysis

Project Description and Goals:

Market intelligence around 2 goals:

Competitor analysis in order to understand its competitive advantages. The analysis revolves around the strategy followed by the selected company and its implementation:

1. Frameworks Agreements, preferred countries, etc;
2. Investment decisions, main ratios considered, finance strategy

Intern Role Description:

Carry-out detailed research based on public and internal (Iberdrola’s) data, analysis of the said data and reach conclusions.

Profile: Skills & Experience Pre-required:

Strong analytical skills, basic financial skills, proactive and creative, results oriented

Desired: Good understanding of the renewable sector, presentation skills

*** Spanish proficiency is desirable.

***All expenses covered (flight, health insurance, stipend)

***For more information or to apply, contact MIT-Spain, Alicia Raun aliciag@mit.edu
**Project #2: BROADBAND PLC TELECOMMUNICATIONS**

*Project Description and Goals:*

The scope of this role consists of understanding and characterizing Low Voltage grid in Iberdrola Spain, and assessing the adequacy of BPL (Broadband PowerLine communications) to perform over it based on state of the art solutions and pre-existing knowledge in Iberdrola.

The project will involve a first phase of electricity grid topology understanding, and the analysis of the existing data to characterize it most typical topologies, architectures and characteristics.

The second phase will involve the analysis of the feasibility of BPL deployments on top of this network, based on BPL performance data, and the result from the first stage of the project.

The result will be a feasibility study that will help Iberdrola to take technology decisions for its next generation telecommunications architecture for the smart grid.

*Intern Role Description:*

Reporting to TELECOMMUNICATIONS - Planning and Development Manager, the student will be responsible to assess Low Voltage grid topology and BPL telecommunication solutions, to study the feasibility of their application on the Low Voltage Grid, the next frontier for grid control.

*Profile: Skills & Experience Pre-required:*

Strong knowledge of the grid technical characteristics, interest for Telecommunication technologies (specifically Powerline Communications –PLC-), data processing and analysis capability. Scripting programming languages knowledge.

*** Spanish proficiency is desirable.

***All expenses covered (flight, health insurance, stipend)

***For more information or to apply, contact MIT-Spain, Alicia Raun aliciag@mit.edu

**Project #3: Innovation Management**

*Project Description and Goals:*

- **R&D management activities** and environmental ones with international outreach (Spain, UK, USA and Brazil)
- **Venture Capital activities** through Perseo (corporate venture capital program of Iberdrola)
- **Technological Reports:** solar PV, distributed generation, batteries, electric vehicle, storage...

*Intern Role Description:*
Training in R&D management activities and environmental too. Tracking the R&D projects, certification of the management system, reporting and positioning of Iberdrola. Collaborate with Perseo activities, filtering opportunities, analysing markets and supporting the management.

Profile: Skills & Experience Pre-required:

Engineer, Microsoft Office, Experience in the Energy Sector

*** Spanish proficiency is desirable.

***All expenses covered (flight, health insurance, stipend)

***For more information or to apply, contact MIT-Spain, Alicia Raun aliciag@mit.edu