

## **Data Scientist**

**Date:** 20-May-2018

**Location:** Madrid, ES

**Company:** Alstom

The future of transportation is already here.

Alstom, with recorded sales of 7.3 billion in the 2016/17 fiscal year, is the world leader in integrated transport systems and continues to push the boundaries of innovation & digital solutions for transportation systems and e-mobility. We are today at the forefront of providing sustainable modes of transport, with the largest range of rail solutions in the market. Headquartered in France and present in over 60 countries, we employ 32,800 people worldwide.

For more information, please visit: <http://www.alstom.com/>

### **JOB TITLE.**

Data Scientist.

### **PURPOSE OF THE JOB.**

Develop, through iterative process, data analytics solutions to provide support to operators

Demonstrate the value of the solutions through “proof of concept” and “proof of value” phases in cooperation with Alstom customers and partners

### **ORGANISATION STRUCTURE.**

The position will be part of the Business Incubator newly created within Transport Information Solutions

### **ORGANISATIONAL REPORTING.**

Direct reporting to TIS Business Incubation Director and dotted line reporting to DC Metier Director

### **MISSION AND PERFORMANCE MEASUREMENT.**

. Development of valuable solutions with good feedback from customers

### **RESPONSIBILITIES.**

-Support the identification of solutions that would provide added value to our customers through the use of statistical, algorithmic, mining and visualization techniques

-With the rest of the incubation team, define a complete data storage, analytic and visualization architecture anticipating the constraints (regulations; IT policy; confidentiality, etc...) that will apply when we will deploy the solution at our customers

-Identify what data is available and relevant, including internal and external data sources, leveraging innovative data collection processes (IoT, geo-location, social media, weather forecast, ...)

-Define data collection, integration, and retention solutions based on the input collected with the business

-Clean and analyze data to identify patterns and useful business information on real-life situations

-Through iterative process, including Proof of Concept (POC) and Proof of Value (POV), develop a set of analytical solutions and demonstrate their value based on real-life experimental measures

-Provide support to strategy and marketing team in the communication around the value of the solution

-Be a contributor to Transport Information Solution Innovation network through continuous propositions around new business opportunities.

- Knowledge of Alstom.
- Knowledge of other functional areas within the organization.
- Knowledge of the domestic environment.
- Knowledge of the international.

## **CANDIDATE REUIQREMENTS.**

### **Educational Requirements.**

Master's degree in Applied Mathematics, Statistics or other quantitative discipline such as Operations Research or Economics

### **Experience.**

-4 years of relevant quantitative and qualitative research and analytics experience.

-Experience as data scientist using a PaaS (Azure, ...) and Open Source components.

-Experience using machine learning algorithms.

**Functional Know How.**

Strong programming skills (such as Hadoop Mapreduce, Spark, or other big data frameworks, Java), and statistical modelling (like SAS or R)

Proficiency in the use of statistical packages.

-Proficiency in statistical analysis, quantitative analytics, forecasting/predictive analytics, multivariate testing, and optimization algorithms

-Operational and Leadership Know How.

-Fluent in English.

-Ability to come up with solutions to loosely defined business problems by leveraging pattern detection over potentially large datasets

-Being proactive to increase productivity, previous job in a start-up will be a plus.

**ALSTOM Operational Know How.**

Winning & Influencing: DESIRABLE.

Operational effectiveness: MANDATORY.

Risk Management: DESIRABLE.

Ability to make decision / Sense of urgency: MANDATORY.

Resilience: MANDATORY.

**ALSTOM Leadership Know How.**

Continuously Managing & Developing People: MANDATORY.

Strategic Vision: DESIRABLE.

Teamwork and accountability: MANDATORY.

Communication with Transparency: MANDATORY.

Shaping & driving change: DESIRABLE.

Motivating & Inspiring: DESIRABLE.

**JOB LOCATION / JOB LOCATION / MOBILITY REQUIREMENTS.**

Madrid, regular international trips (few days per month).

Alstom is committed to create a diverse & international working environment, that reflects the future of our industry, our clients and end-users. As an employee, you will have a unique opportunity to continue to build your career and directly contribute to the expanding growth of the global transport industry

**Job Segment:** Database, Developer, Risk Management, Java, Technology, Finance, Research