



## Data Scientist

### Job Description

Becoming the leader in responsible energy also means committing to cleaner energy: energy which respects the local environment and which preserves the global equilibrium of our planet. For Total's researchers, this commitment translates into concrete challenges: developing cooling fluids that improve battery efficiency, improving car fuel economy by developing high performance lubricants, reducing car emissions with carefully selected fuels additives, decreasing application temperature of bitumen are examples of many ongoing projects.

Traditionally based on empirical approaches, product formulation is undergoing a rapid transformation relying heavily on the generation and the exploitation of data (via advanced spectroscopic techniques, high-throughput experimentation, etc.) to accelerate the development of innovative products.

In that context, Total Marketing & Services is seeking a junior data scientist to join its Data Science team in its Research Center of Solaize.

#### Responsibilities:

- Select and apply appropriate statistical and machine learning to large-scale, high-dimensional data.
- Apply your expertise in machine learning and chemometrics to build advanced predictive models to understand the impact of specific new raw materials on product performance
- Produce novel analysis giving insights into the physico-chemical mechanisms
- Take responsibility for preparing data for analysis, review data preparation/ETL code and provide critical feedback on issues of data integrity.
- Share knowledge by clearly articulating results and ideas to formulators, managers, and key decision makers.
- Stay current with the latest research and technology and communicate your knowledge throughout the enterprise

#### Candidate profile

- You crave data-driven learning.
- You are excited by the prospect of working on a wide variety of datasets across many projects and applications.
- You love being an active member of a diverse team.
- MS (or BS with 2+ years' experience) in data science, statistics, computer science
- Strong background in machine learning and/or statistics. Chemometrics is a plus.
- Mastery of main programming languages such as Python, R, Matlab
- Fluent English, French is highly appreciated.
- Research publications are a plus.
- Excellent written and oral communication skills.

### About Us / Company Profile

Give your best to better energy and make the commitment with Total. With over 500-plus professions in 130 countries, we offer high safety and environmental standards, strong ethical values, an innovation culture and wide-ranging career development. Be part of the global team whose mission is already shared by 100,000 employees: to make energy better each and every day.

**Contact :** Laurent Grosset : laurent.grosset@total.com