

As a worldwide technology leader solving critical issues, ALTRAN brings customers' ideas and projects to life and increases their performance, through technology and innovation. Created in 1982, ALTRAN has today more than 23000 employees worldwide, with a strong position in Aeronautics, Defence and Space area.

Altran Flight Physics team participates to Flight Testing for a major aircraft manufacturer in Toulouse area. To reinforce this team, Altran proposes a permanent contract as Data Scientist:

## Permanent Contract – Data Scientist – M/F

### Mission

Within the Scientific Computing department of the Flight Physics Technical Unit, you will contribute to the definition of new ways to analyze Flight Test Data using innovative Big Data Methodologies.

Your main missions will be to:

Through a strong partnership with a major manufacturer based in Toulouse suburbs, Altran is highly involved in the analysis of flight test and simulation data. Given the massive volume that needs to be processed and the different format of the data (both structured and unstructured), traditional data processing are limited. This complexity calls for new technologies that enable to effectively corral and optimize large sets of data.

The development of such technology allows studying several fields:

- Modeling and simulation
- Flight physics and flight test
- Data management
- Big Data analytics

A first mission concerns flight test data storing, processing and analysis. This falls within a wider ambitious flight test cost reduction process. Indeed, when the need of a flight test arises, it is laborious to find-out if the flight test data available could pertain to the need. The objective of this mission is to find innovative solutions to address this difficulty. The main steps of the job will be to:

- Understand existing methods and tools
- Analyse data architecture
- Handle existing tools
- Based on Big Data technology (informatics and mathematic treatment), specify data management and analysis for a smarter approach.
- Define and Prototyping a technical solution
- Documentation

The consultant shall apply his knowledge of Big Data technologies in the frame of a multinational large-scale industrial project for which the notion of Big Data analysis is a challenge.

## Profile

With an education and at least a first significant experience in Big Data, the candidate should have the following skills:

- **Advanced knowledge in Data Analytics**
- Programming/computational skills
- Knowledge of Methods used for physical data analysis (SVD, POD, surrogate modeling, etc...)
- Creative, out-of-the box minded
- Autonomy/rigor/team player/Good communication skills
- Willingness to learn new skills, self-development, problem-solving orientation
- Knowledge in Aircraft Development would be a plus
- English language: professional level
- Knowledge in Unix/Linux, Matlab/Simulink, programming (Fortran, Python, ksh/bash, C, VBA)

Send your application to the following email address:

[patrice.tajan@altran.com](mailto:patrice.tajan@altran.com)



## INNOVATION MAKERS

