



Job description

Role Description

Job Title:	Innovation project leader – digital manufacturing	Starting date requested	ASAP
Incumbent:	New hire	Business Unit/Division:	R&T
Reports to: (name and title)	Ravi SHAHANI	Function:	Strategic Innovation Director
No. of Direct Reports:	0	Location:	Voreppe
No. of Indirect Reports:	0	Grade: as evaluated	30-33

Context:

Constellium is a global sector leader strongly committed to designing and manufacturing innovative and high value aluminium solutions for a broad range of applications, dedicated primarily to aerospace, automotive and packaging markets.

Constellium C-TEC in Voreppe, France is at the heart of the R&D programs deployed by Constellium to bring new solutions to market. We are seeking to reinforce a core innovation team, creating aluminium products and processes for tomorrow. The team adopts lean startup principles and a hands-on engineering approach, covering both technical and commercial perspectives and with significant top management exposure.

Primary Purpose

In the frame of our global digital strategy (Industry 4.0, Smart Factory), the focus of this role is to exploit the large quantities of Constellium industrial data to improve our manufacturing operations worldwide and deliver better products to customers such as Airbus and Boeing for airframes or Audi and Tesla for car bodies. It is also to explore new opportunities offered by digital at Constellium manufacturing plants or in close connection with our customers.

The jobholder will

- Work across organizational boundaries (technical sales, manufacturing, industrial automation, IT...) of Constellium plants to understand our key product lines, manufacturing processes and associated data. Identify high value targets for digital solutions.
- Initiate, plan and deliver Proof of Concept studies using data analytics/machine learning algorithms on manufacturing data. Lead implementation and validation of industrial solutions.
- Contribute to selection of external suppliers and software/hardware solutions. Manage relationships with external suppliers (e.g. data analytics startups or major players, sensor suppliers, consultants...)
- Develop methods to collect and clean/validate data from multiple systems for subsequent data analytics

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- Provide technical leadership for peers in the area of data engineering, data analytics, and machine learning
- Track progress of projects to meet technical objectives, cost and schedule targets
- Document and communicate progress regularly, including presentations to high level management and other non-specialists in data analytics
- Monitor developments in digital manufacturing to identify new opportunities
- Engage with Universities/Research Institutes and specialist vendors to evaluate new solutions

Leadership competencies, technical skills requirement

Technical competencies:

A masters-level degree in a relevant quantitative discipline (e.g. statistics, operations research, computer science, industrial engineering...) is necessary. A qualification in engineering or materials science would be a plus.

Experience:

2 and preferably 4 years of relevant work experience including exploitation of data in an industrial environment, including

- Capture and validation of sensor data from industrial equipment.
- Product/process improvement studies
- Problem solving through statistical modelling and machine learning (e.g., R, PYTHON, MATLAB)
- Demonstrated skills in selecting the right statistical tools given a data analysis problem
- Demonstrated skills in selecting good practices for data manipulation/cleaning
- Database environments (preferably including SQL)
- Data visualization

Specific competencies:

The ideal candidate will have

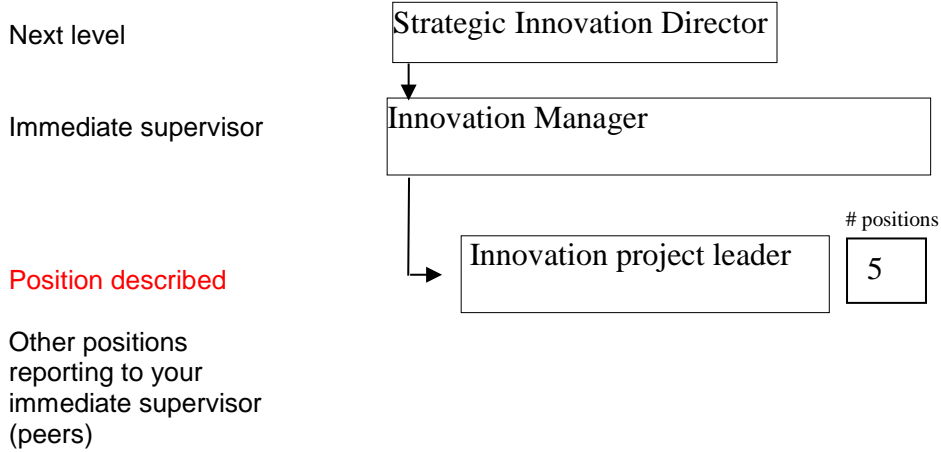
- Demonstrated leadership and self-direction.
- Proven ability to network across organizational boundaries
- Demonstrated willingness to both teach others and learn new techniques.
- Excellent project management, presentation and technical writing skills
- Experience of agile project management methods
- Some experience of automotive, aerospace or materials science industries

Languages:

Fluent written and spoken English is essential. Good French is necessary. German would be a plus.

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The job within the organization



Supervisor	Director Comp & Ben (job grading)
Date and signature:	Date and signature: