

MHI RJ Aviation Projects

Project Title: Analyst-Failure and Component Removal Prediction-16 Month

Project No: RCA-2

Objectives: We need to develop tools to perform this assessment and to monitor the reliability performance in a quick and efficient manner, allowing for early detection of performance metrics deviation against a theoretical model and projecting future performance trends based on observed performance from Operator submitted data.

Description: You will be part of the In-Service Maintenance Data team within Commercial Aircraft, working with a group of Engineering subject matter experts (SMEs) responsible for aircraft reliability cost maintenance flight operations performance tools, methods and analyses. The team needs to develop tools to perform this assessment and to monitor the reliability performance in a quick and efficient manner, allowing for early detection of performance metrics deviation against a theoretical model and projecting future performance trends based on observed performance from Operator submitted data.

Prerequisite and Skill Required:

- *Programming languages: Python, R
- *Knowledge of data mining, machine learning and artificial intelligence as well as MicroStrategy BI tool would be a plus
- *MS Office suite (particularly Excel, Access, Word and Powerpoint)
- *Excellent communicator and self-starter. Strong team player. Detail oriented.

Project Title: Analyst-Supporter of Aftermarket Spares Sales Dashboard
Development Process and Related Activities

Project No: RCA-3

Objectives: The team needs to develop tools to perform this assessment and to monitor the reliability performance in a quick and efficient manner, allowing for early detection of performance metrics deviation against a theoretical model and projecting future performance trends based on observed performance from Operator submitted data.

Description: You will be part of the In-Service Maintenance Data Team within Commercial Aircraft, working with a group of Engineering subject matter experts (SMEs) responsible for aircraft reliability

Pre-requisite and Skill Required:

- Programming languages: Python, R

- Knowledge of data mining, machine learning and artificial intelligence as well a MicroStrategy BI tool would be a plus
- MS Office Suite (particularly Excel, Access, Word and Powerpoint)
- Excellent communicator and self-starter, strong team player, detail oriented.

Project Title: Analyst-Development and Modelling of Predictive Performance Tools (Worldwide Fleet-Theoretical Model Over Life)

Project No: RCA-4

Objectives: The team needs to develop tools to perform this assessment and to monitor the reliability performance in a quick and efficient manner, allowing for early detection of performance metrics deviation against a theoretical model and projecting future performance trends based on observed performance from Operator submitted data.

Description: You will be part of the In-Service Maintenance Data team within Commercial Aircraft, working with a group of Engineering subject matter experts (SMEs) responsible for aircraft reliability, cost, maintenance, flight operations performance tools, methods and analyses. The team is responsible for assessing the reliability performance of the products and ensuring that the reliability performance does not degrade throughout the life cycle of the products.

The team needs to develop tools to perform this assessment and to monitor the reliability performance in a quick and efficient manner, allowing for early detection of performance metrics deviation against a theoretical model and projecting future performance trends based on observed performance from Operator submitted data.

Prerequisite and Skill Required:

- Programming languages Python, R
- Knowledge of data mining, machine learning and artificial intelligence as well as MicroStrategy BI tool would be a plus
- MS Office Suite (particularly Excel, Access, Word and Powerpoint)
- Excellent communicator and self-starter. Strong team player, detail oriented.

Project Title: Business Intelligence Analyst

Project No: BI-01

Objectives:

The business Intelligence Analysts are the direct source for providing insight to help enhance the fidelity of commercial decision making for the CRJ aftermarket and help digitize that effort by developing online tools and dashboards to deliver recommendations.

Description:

From day one, you will work to enable insights and intelligent decision-making across functions and contribute to the delivery of real projects using the latest technology to solve business problems. Over the course of your internship, you will receive one-on-one training and coaching from a team of talented experts and take on increasingly, while learning in a challenging and rewarding environment. The Business Intelligence Analysts are the direct source for providing insight to help enhance the fidelity of commercial decision making and help to digitize that effort by developing online tools and dashboards to deliver recommendations.

Pre-requisite Skills:

- High organizational skills and a team player able to work with variable departments
- You have a good level written and speaking English
- You have strong communication skills
- Demonstrated skills in data visualization techniques
- Demonstrated experience in extracting actionable insight from quantitative data
- General programming proficiency, with an emphasis on Python/R/HTML/CSS and SQL
- General knowledge of software development frameworks and how they interact across the stack
- Comfort with command-line interfaces, as well as working familiarity with cloud computing resources

Project Title: Project Coordinator and Reporting Analyst

Project No: RCA-05

Description:

You will be working with a group of Engineering subject matter experts (SMEs) of various disciplines including aircraft reliability, cost and economics, maintenance, flight operations performance tools, methods and analyses. The team is dedicated to establishing the optimized performance requirements the CRJ aircraft product line along with maximizing revenue opportunities in the Aftermarket.

Prerequisite and Skill Required:

- Project management skills
- Coding/automation a plus (focus on VBA Excel)
- Experience with organizational development is a plus
- MBA a plus
- Microsoft Office Suite (advanced Excel proficiency a plus)