Reliability and Cost Analyst- Failure and Component Removal Prediction (16 months)

There's a New Energy on Board! Our company MHI RJ Aviation Group (MHIRJ) provides comprehensive critical operational, engineering and customer support solutions including maintenance, refurbishment, technical publications, marketing and sales activities for the global regional aircraft industry. Headquartered in Boisbriand, Quebec, and bolstered by an Aerospace Engineering Center, MHIRJ's network of service centers, support offices and parts depots are positioned in important aviation hubs in the U.S., Canada and Germany. A wholly owned subsidiary of Mitsubishi Heavy Industries, Ltd, MHI RJ Aviation Group includes MHI RJ Aviation ULC (Canada), MHI RJ Aviation Inc. (U.S.A.) and MHI RJ Aviation GmbH (Germany).

The Reliability and Cost Analysis team is responsible for managing aircraft reliability data, business intelligences systems and Aircraft Maintenance Cost.

In this role you will contribute to leveraging data to create value for the internal and external stakeholders. This will be accomplished through the development, delivery and support of new and existing tools and applications.

Your tasks will include:

- Deliver dashboard that provides warning and predictions to when and where an Aircraft Component will fail or need to be removed;
- Take ownership of customer success by focusing on their needs when we design features, write code, write tests and fix bugs;
- Be excited to learn and introduce the team to new technologies that improve performance, allow new features or improve our processes;
- Build features optimized to work in both the cloud and on-premise software;
- Build your own server-side Python code and make use of open source to create a robust high-performance backend;
- Implement responsive front-end using React/JS/HTML5;
- Develop and implement high level algorithms using Machine Learning or Artificial Intelligence in order to proper predict the Component Failure/Removal;
- Work with other developers through code reviews and design sessions to create the best code possible.

You will develop the following skills:

- Software Development and Deployment
- Working in a development team
- Cloud architecture, deployment and authentication

The skills you bring:
- Are enrolled in Software Engineering, Computer Engineering, Electrical Engineering, Mechanical Engineering or Computer Science
- Know programming languages: Python, R

- Have knowledge of Cloud Infrastructure and Development (MS Azure, Devops)
- Have knowledge of databases and SQL language (SQL Server, Oracle)
- Know MS Office suite (particularly Excel, Access, Word and PowerPoint)
- Have knowledge of Command line Unix/Linux environments
- Are an excellent communicator and self-starter. Strong team player. Detail oriented.

Additional details:
- Position located at East Mississauga, Ontario – flexible working schedule with expectation to be physically working at the office when required (subject to change while adhering to provincial guidelines for COVID-19)

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