

General Engineer

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Company: Federal Aviation Administration

Location: Belgium

Category: computer-and-mathematical

Summary

This Group is responsible for NAS operations quality control/policy oversight and enterprise configuration management for all Tech Ops. Works with engineering, data and analytics teams from across the ATO and responsible for helping to develop data collection and analysis capabilities to help with decision making and maintenance optimization. This is a high-profile position that will work with cross-functional teams to derive information from data to solve previously unsolvable problems.

Duties

The General Engineer plans and accomplishes highly complex and challenging projects/programs and other work activities under the minimal direction of a manager, project/program manager, team leader, or more experienced engineer. Builds, maintains and uses tools and capabilities needed to measure, monitor, analyze and optimize National Airspace System (NAS) maintenance operations. Identify the telemetry data required and apply engineering principles to support development of enterprise level predictive models that optimize maintenance of diverse NAS systems, improve NAS safety and improve NAS efficiency.

Applies experience and comprehensive knowledge of engineering principles, theories, and concepts, as well as an understanding of new technologies and methodologies, to solve complex problems and to develop improved technical processes for the organization. Uses engineering software, data visualization and data analytics software to address complex systems problems. Considers the objectives of the major subdivision and ATO when

developing, integrating and implementing solutions to diverse, complex problems. This work significantly impacts the National Airspace System (NAS) and the accomplishment of Federal Aviation Administration (FAA) strategic objectives.

Participates in designing, procuring, implementing, maintaining and operating a telemetry data gathering system for diverse NAS system operating parameters such as temperatures, pressures, flow rates, voltages, currents, power levels, vibration and many more. Utilizes the application of multi-disciplinary engineering principles (. mechanical, electrical, chemical and computer engineering) to: identify the information needed to establish optimum maintenance practices for diverse NAS systems to balance costs and operational NAS safety; and design and maintain system and the models requires. Collaborates with other engineers from disciplines specific to NAS systems.

Defines, organizes, and assigns resources to accomplish organizational objectives.

Develops plans and schedules, identifies resource requirements, defines milestones and deliverables, monitors activities, and provides progress reports. Allocates resources to accomplish large work activities within established schedules. Determines technical requirements for functional improvements or major systems enhancements. Develops and provides training for system users and other technical support staff on system functionality and support requirements. Uses experience to develop plans to address current system needs and meet long range agency requirements; and investigates new and emerging technologies and their applicability to system requirements.

As a principal technical specialist or as a project/program manager, responsible for: (a) Providing technical guidance to project personnel to solve difficult technical issues, related to procedures, answering questions, giving instruction and procedures, following up, and spot-checking completed work. (b) Making recommendations to supervisor for work assignments. (c) Reviewing work of assigned personnel on complex projects for technical accuracy and adequacy. (d) Maintaining an awareness of the status and progress of all projects within the assigned technical area and developing and recommending adjustments to supervisor in accordance with established priorities.

Contacts are internal and external to AJW and include representatives from other ATO Service Units, FAA Lines of Business, and members of the aviation industry. Works with operations and safety groups within the ATO to identify and analyze opportunities to improve safety, operational efficiency and cost efficiency. Coordinates with subject matter experts within the FAA and other Lines of Business on various issues related to maintenance

optimization with data. Often represents the FAA as senior technical point of contact for supported systems and projects.

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