

# INFORMATION TECHNOLOGY POSITIONS



**POWERING YOUR POTENTIAL**



## SOFTWARE ENGINEER

- » Develop software solutions by studying information needs; conferring with users; studying systems flow, data usage and work processes; investigating problem areas; and following the software development lifecycle.
- » Uses knowledge of multiple architectures and how to apply architecture to solutions, programming and testing standards, and industry standards for traditional and Agile development.
- » Define applications and their interfaces, communicate requirements for interactions with solution context, and define Nonfunctional Requirements (NFRs).

## CYBERSECURITY ENGINEER

- » Supports systems engineering and software systems research to develop new capabilities, ensuring cybersecurity is fully integrated in the design.
- » Conducts vulnerability scans and recognizes findings in systems.
- » Identifies systemic security issues based on the analysis of vulnerability and configuration data.

## CYBERSECURITY RISK ANALYST

- » Builds an understanding of Cummins cybersecurity policies and industry data privacy principles.
- » Participates in cybersecurity risk identification, utilizing identified Cummins risk management frameworks, while working with the team to evaluate severity and mitigation plans.
- » Applies knowledge of frameworks and standards (e.g. NIST, ISO, ITIL, Cobit) in a manner specific to Cummins processes and controls.

## DATA SCIENTIST

- » Creates individual algorithms using statistical methodologies through the use of statistical programming languages and tools.
- » Leverages statistical and predictive modeling concepts in the research, design, implementation and validation of algorithms; to analyze diverse sources of data to achieve project specific outcomes.

## DATA ANALYST

- » Analyzes diverse data sets to identify data quality, coherency and integrability issues and reduce data redundancy.
- » Applies machine learning and machine learning tools on data and metadata to improve data quality.
- » Conducts descriptive and diagnostic analytics on data sources and develops data profiles for data tables and elements in the data lake.
- » Collaborates to develop data cleansing methods and rules.

## DATA ENGINEER

- » Implements and automates deployment of our distributed system for ingesting and transforming data from various types of sources (relational, event-based, unstructured).
- » Develops reliable, efficient, scalable and quality data pipelines with monitoring and alert mechanisms that combine a variety of sources using ETL / ELT tools or scripting languages.
- » Analyzes complex data elements and systems, data flow, dependencies, and relationships to contribute to conceptual physical and logical data models.

## IT ARCHITECT

- » Applies enterprise architecture standards including styles, stacks, and patterns, and applies them effectively.
- » Coordinates with project teams to create, document, assess and/or validate the application and infrastructure solution designs for specific systems.
- » Participates as a change agent to drive strategic IT architecture direction.
- » Builds and maintains awareness of emerging technologies, software trends, and tools.

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## INFORMATION TECHNOLOGY POSITIONS

### IT TECHNICAL ANALYST

- » Assists in technical analysis of potential solutions including evaluating the technical fit.
- » Participates in formal design and code reviews to ensure the detailed design specifications adhere to our guidelines and strategy.
- » Assists in creating design of infrastructure, applications, interfaces, and/or reports while meeting architecture, security, performance, scalability, and maintainability requirements.

### IT APPLICATIONS ANALYST

- » Partners with multiple teams such as business analysts, architects, technical experts and software vendors to ensure IT Applications effectiveness.
- » Develops expertise in emerging application and solution trends and functionality.
- » Provides functional recommendations for assigned applications and systems.

### IT QUALITY ASSURANCE ANALYST

- » Develops functional and technical test methodologies, plans, scenarios and cases for testing of applications and systems at various stages of development and implementation.
- » Coordinates and executes testing to ensure quality solutions and efficient system performance.
- » Reports testing results and tracks resolution of issues identified during testing.

### IT BUSINESS ANALYST

- » Partners with business functions to define, determine, analyze, document business requirements and priorities.
- » Works with application and technical experts on the solution design, implementation, support, maintenance and enhancements.
- » Facilitates issue trend analysis and root cause analysis, while promoting proactive detection of issues before they cause business disruption.

### IT DEVELOPER

- » Applies secure coding and UI standards, and best practices to develop, enhance, and maintain IT applications and programs.
- » Assists with efforts to configure, analyze, design, develop, and maintain program code and applications.
- » Performs unit testing and secure code testing, and issues resolution.

### IT OPERATIONS SUPPORT SPECIALISTS

- » Performs routine maintenance, authorized changes and upgrades to existing systems.
- » Conducts root cause analysis for issue identification and resolution.
- » Performs preventative maintenance on IT systems and networks; monitors system performance and accuracy.
- » Facilitates new employee technology setup, including computer setup and delivery, and system access.

### DATABASE ADMINISTRATOR

- » Apply knowledge of database management through monitoring databases and equipment to ensure expected results are attained.
- » Ensures database stability and reliability by following version change controls and procedures.
- » Ensures data integrity, security and disaster recovery by assisting with regular database backup; and restore procedures, and following access and integrity controls.

### PROJECT COORDINATOR: IT

- » Employs knowledge of effective project management and general business understanding.
- » Maintains project notes, databases, and other records; monitors and communicates project status to project team.
- » Assists with managing project risk, budget planning and tracking, research, and analytical support.
- » Documents and shares team learnings with other teams; draws on other experiences to enhance the success of the project.

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