

# Systems Architect Engineer: Chief Engineer

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Designs and develops system architectures and defines key capabilities and performance requirements. Defines total systems design and technology maturity constraints in accordance with mission requirements. Develops systems and system element architecture and design and interface definitions. Defines system implementation approach and operational concept. Develops models and architectural guidelines for current and future system development. Ensures requirements are met and evaluates performance with customer.

## **Discretion/Latitude**

Acts with Business Areas in an engineering leadership capacity to uncover and resolve issues associated with the development and implementation of operational programs and business pursuits. Identifies, recommends and aligns R&D programs and technological applications to accomplish long-range business objectives. Develops and maintains the Business Area Technology Roadmap. Work is checked only to the effectiveness of results obtained, typically from a short-term perspective for operational issues and longer-term perspective for technology alignment to Business Area strategies.

## **Knowledge, Skills, & Abilities**

Exhibits an exceptional degree of ingenuity, creativity, resourcefulness and technical leadership. Applies and/or develops highly advanced technologies, scientific principles, theories and concepts to meet the needs of the Business Area. Viewed as leading expert in applying technology and solving operational issues in support of Business Area objectives. Establishes long-range marketing plans and technology Roadmaps for the Business Area's products and services by identifying, analyzing and developing new business opportunities. Establishes customer contacts, develops proposals, and delivers technical marketing presentations. Cultivates and maintains relationships with key decision makers.

## **Problem Solving**

Applies technology and engineering leadership in the achievement of Business Area's operational and strategic goals. Applications may be diverse and include newly developed concepts, theories and products, or engineering disciplines.

## **Impact**

Sets the technology direction for the Business Area and corrects the course of current errant technology direction when warranted. Erroneous decisions or recommendations would have a long-term negative effect on organization's reputation and business posture. Leads development and implementation of key programs and/or processes for the Business Area.

## **Liason**

Serves as consultant to Business Area top management in long-range company planning concerning new or projected areas of technological research, advancements and current program technical performance. Prime spokesperson on Business Area's technical capabilities and future directions. Often instrumental in attracting and obtaining major new company business.

## **Minimum Education and Experience**

20+ years of broad and extensive professional experience with a BS in Engineering or a related field. Employees usually have advanced degrees in engineering.