

# Embedded Engineer: Sr. Principal Embedded Engineer

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Designs, develops, operates and maintains software and firmware components and computing systems software; ensures components and software meet with engineering, scientific and manufacturing requirements. Applies the appropriate standards, processes, procedures and tools throughout the system development life cycle to support the generation of engineering applications and products, such as: laboratory simulation systems, aircraft flight control and display systems, mechanical and electrical systems. Interfaces with customers, suppliers, application users and other technical and support personnel.

## **Discretion/Latitude**

Works under consultative direction toward predetermined long-range goals and objectives. Assignments are often self-initiated. Determines and pursues courses of action necessary to obtain desired results. Work checked through consultation and agreement with others rather than by formal review of superior.

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

Applies advanced technical principles, theories and concepts. Contributes to the development of new principles and concepts. Widely recognized for achievements, technical expertise and meritorious standing within professional field. Identifies, analyzes and develops new business opportunities. Establishes customer contacts, conducts research and analysis into future plans and needs, assists with the development of specifications, develops proposals, and delivers marketing presentations.

## **Problem Solving**

Works on unusually complex technical problems and provides solutions that are highly innovative and ingenious.

## **Impact**

Develops advanced technological ideas and guides their development into a final product. Erroneous decisions or recommendations would typically result in failure to achieve critical organizational objectives and affect the image of the organization's technological capability. Functions in a program leadership role. Plays a key role in implementing programs/projects and makes significant contributions to department goals and overall functional strategic planning efforts.

## **Liason**

Serves as organization spokesperson on advanced projects and/or programs. Acts as advisor to management and customers on advanced technical research studies and applications. Often instrumental in attracting and obtaining major new company business.

## **Minimum Education and Experience**

15+ years with a BS in designated Engineering or a related field. Employees usually have an advanced degree in their field of specialization.