Systems Modeling Engineer: Associate Principal Systems Modeling Engineer

Performs system and subsystem integration, technical risk assessments, technical planning, verification and validation, and supportability and effectiveness analyses of total systems throughout the system lifecycle. Analyses are performed at all levels of total system product implementation to include: concept, design, fabrication, testing, installation, operation, maintenance and disposal. Performs functional analysis, timeline analysis, detail trade studies, requirements allocation and interface-definition studies to translate customer requirements into hardware and software specifications.

Discretion/Latitude
Work is performed without appreciable direction. Exercises considerable latitude in determining the technical objectives of assignments. Completed work is reviewed from a relatively long-term perspective for desired results.

Knowledge Skills & Abilities
Applies extensive technical expertise and has full knowledge of other related disciplines. Answers technical questions regarding products and services and may take part in putting together proposals, configurations, and product offerings.

Problem Solving
Develops technical solutions to complex problems that require the regular use of ingenuity and creativity.

Impact
Regularly called upon to function in a project leadership role. Erroneous decisions or recommendations would typically result in failure to achieve major organization objectives.

Liaison
Represents the organization as the prime technical contact on contracts and projects. Interacts with senior external personnel on significant technical matters often requiring coordination between organizations.

Minimum Education and Experience
10-12+ years with a BS in designated Engineering or a related field. Employees usually have an advanced degree in their field of specialization.