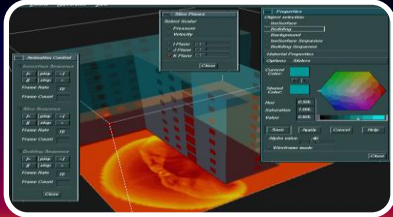




Science and Engineering

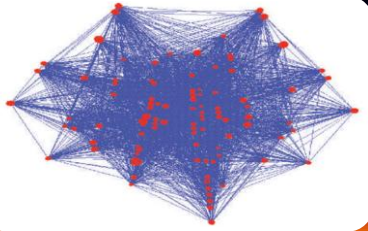
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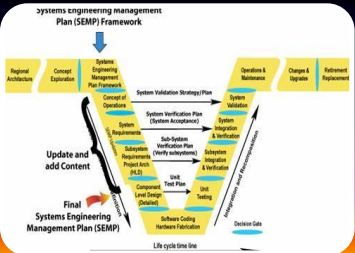
Computational Science

- Experienced with scientific computing applications –Mathematica, MATLAB, SciLAB, GNU Octave, COMSOL Multiphysics, and PDL
- Conduct grid application development, distributed computing, and parallel processing
- Identify numerical solution techniques



Computer Modeling and Scientific Visualization

- Implement computer modeling and simulation to develop sophisticated applications (e.g., testing of new power processes)
- Employ 3D+T computer simulations to perform “what-if” analyses
- Conduct simulations with combined live, virtual, and constructive (LVC) elements



Systems Engineering

- Apply standards-based (ITIL, ISO, SEI CMMI), scalable approach that focuses on requirements definition and analysis
- Integrate systems engineering with Earned Value Management (EVM) and Cost as an Independent Variable (CAIV) to maintain schedule and control costs



Specialized Engineering Support

- Support design of printed circuit boards with AutoCAD and Mentor Graphics Expedition and Design Capture tools
- Conduct system and component-level evaluation of nuclear weapons
- Support the study of energy transport, deposition and matter response, and radiological hazards