

Software Engineer's job functions are as follows:

- analyzing user requirements;
- researching new software programs;
- testing new programs and fault finding;
- Evaluate and perform design tradeoffs regarding the architecture and software components
- Evaluate distributed grid applications in a network centric architecture
- evaluating the software and systems that make computers and hardware work;
- evaluating existing programs by analyzing and identifying areas for modification;
- support the integration of existing software products and getting incompatible platforms to work together;
- investigating new technologies;
- creating technical specifications and test plans;
- working with computer coding languages;
- writing operational documentation with technical authors;
- working closely with other staff, such as project managers, graphic artists, designers, developers, and systems analysts
- consulting stakeholders concerning the maintenance and performance of software systems and asking questions to obtain information, clarify details and implement information
- The ability to evaluate the implementation process for software services for use in a Enterprise Architecture

The necessary skills are as follows:

1. Fluent in C++, C#, SOAP, XML, Java, J2EE, UDDI, WSDL, ODBC, JDBC, SQL
2. Knowledge of parallel processing, distributed and grid computing, Enterprise Architectures and Web Services
3. Knowledge of Linux/Unix platforms
4. Knowledge of UML to document designs
5. Excellent speaking and communication skills
6. Problem solving skills to assess design alternatives and perform tradeoffs to determine designs or functionality that best meet customer needs

Required Education/Experience:

1. BS in Computer Science or related field and 5 years of experience --OR
2. Master's Degree in Computer Science or related field and 2 years of experience –
OR
3. Ph.D. in Computer Science