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## **JOB DESCRIPTION: Software Engineer**

### **Summary**

Perform Software Engineering for projects and activities, as assigned, while meeting all project and departmental requirements (i.e. quality, schedule, budget, specification compliance, and technology).

### **Essential Duties and Responsibilities**

- Designs, modifies, develops, writes, and implements applications.
- Supports and/or installs software applications, operating systems, computer and networking equipment.
- Participates in the testing process through test review and analysis, execution, witnessing, and certification of software.
- Participates in site commissioning activities.
- Adheres to standard concepts, practices, and procedures.
- Relies on experience and judgment to plan and accomplish goals.
- Works under the supervision of a Senior Software Engineer and Software Manager.
- Any other task as directed by management.

### **Responsibility and Authority**

- Responsibility: Noted above – Be aware of engineering budget, engineering processes, and engineering quality.
- Authority: Engineering technical decisions within spec compliance.

### **Qualifications**

- B.S. Engineering or appropriate Technical Degree.
- Strong analytical, verbal, and written communications skills.

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## Language Ability

Adequate conversational English is required in order that the individual be able to take direction from management, understand how to complete job tasks, communicate adequately with co-workers and customers, understand and follow safety guidelines, and understand the Alliant Technologies Employee Handbook and all company policies. Must be able to interpret written warnings as posted in all work areas in both the Alliant Technologies office or at any work site where Alliant Technologies performs work.

## Experience

- 1-4 Years of technical/engineering experience

**Alliant Technologies  
 Job Demands**

**Position:** Software Engineer

Physical & Mental Demands	Extent			
	Continuous Over 70%	Frequent	Occasional	Rarely
<b><i>Physical Demands</i></b>				
Standing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walking	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Climbing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bending	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Crouching	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pushing/Pulling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Carrying	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lifting/Lowering 1-15 lbs.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15-30 lbs.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
30-50 lbs.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Over 50 lbs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fine Hand/Eye Coordination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Color Discrimination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hearing Acuity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b><i>Mental Demands</i></b>				
Concentration on detail	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Attention span 1+ hours on a task	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to remember multiple tasks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oral communication	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Written communication	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b><i>Working Conditions</i></b>				
Exposure to toxins, cytotoxins, poisons	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Exposure to extreme heat, cold, temp fluctuations	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Exposure to hazardous chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Exposure to radiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (Specify: )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Sensory Requirements</b>	<b>Is Crucial</b>	<b>Is useful</b>		
See	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Distinguish colors	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Hear/Listen	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Taste	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Smell	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Touch	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Speech	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

<b>Mental Effort</b>	<b>Work Environment</b>
Check all functions performed on a daily basis... <input checked="" type="checkbox"/> Reading <input checked="" type="checkbox"/> Basic arithmetic <input checked="" type="checkbox"/> Advanced mathematics <input type="checkbox"/> Weighing/measuring <input type="checkbox"/> Visualizing conclusions <input checked="" type="checkbox"/> Analyzing data <input checked="" type="checkbox"/> Searching for solutions <input checked="" type="checkbox"/> Creating methodologies <input checked="" type="checkbox"/> Conducting research <input type="checkbox"/> Managing resources <input type="checkbox"/> Evaluating performance of others	% of time spent: <u>95</u> Indoors <u>5</u> Outdoors  The air is: <input checked="" type="checkbox"/> Clean/Normal/Average <input checked="" type="checkbox"/> Dusty/Dirty <input type="checkbox"/> Wet/Humid <input type="checkbox"/> Affected by smoke, fumes, etc.  You work on a surface that is: <input checked="" type="checkbox"/> Level <input type="checkbox"/> Uneven <input type="checkbox"/> Sloping <input type="checkbox"/> Slippery  Noise level is: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Loud



2080 Nelson Miller Parkway  
Louisville, KY 40223-3172  
Phone: 502-244-7313

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### Acknowledgement of Job Description/Demands

**Position:** Software Engineer

I acknowledge that I have received and reviewed the job description for the position above, including the demands associated with this position.

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**Signature**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Printed Name**