Job Description

Do you want to be at the forefront of technology and the changes underway in design projects such as hybrid-electric vehicles, “More Electric” aircraft, and “green” power generation?

Synopsys seeks an experienced and energetic power electronics or simulation expert to join the Corporate Application Engineers (CAE) team for the Saber product line. This position offers the excitement and challenges of working in a dynamic environment and diverse customer base.

Responsibilities:

• Pre-sales and post-sales support for customers in the automotive, aerospace, avionics and power electronics industry
• Work closely with customers to understand current and future requirements in order to drive existing and new product evolution
• Develop and deliver presentations and product demonstrations as part of an account team involved in pre-sales and business development activities
• Provide in-depth technical support in the following areas Software installation and usage
  ◦ Simulation optimization and debugging
  ◦ MAST/VHDL-AMS model development
  ◦ Planning and execution of simulation projects
• Provide on-site training and consulting services to Saber customers
• Collaborate with internal teams (Marketing, R&D) during all phases of the product development lifecycle including definition, design, implementation, and validation
• Contribute articles, papers, and application notes for technical publications, conferences, and the Synopsys Knowledgebase

Qualifications:

• Must have a university degree in electrical engineering or equivalent degree
• Minimum 4 years of related work experience
• Knowledge of system design & verification methodologies used in the Automotive, Aerospace or Power Electronics industries
• Must have experience in system simulation with at least one of the following tools: Saber, Spice, SIMPLIS, PSIM, Matlab/Simulink, SystemVision, Simplorer, Dymola, Amesim or similar
• Experience in behavioral modeling with at least one of the following hardware description languages: MAST, VHDL-AMS, Verilog-AMS, Modelica or similar
• Experience with programming languages like C, C++, Tcl/Tk
• Excellent verbal and written communication and presentation skills (Business English proficiency required)
• Ability to network and to work independently
• Experience with control algorithm development & embedded system design a plus
• Master’s degree a plus
• Korean language a plus

Will consider recent college graduates with excellent skills and recommendations as well. Willingness to travel to customer sites and events in domestic and international locations.

If you are interested in this position, please contact to jp-hr-saiyo@synopsys.com