



Distributor of Simulation Software Specialized in Electrical Engineering.
Wishes to appoint a

Electromagnetic Engineer

About us :

POWERSYS is a company that provides Engineering services and simulation software for electrification. One of our core solutions specifically is to address challenges in electromagnetic/mechanical field with simulation technology we have which is JMAG FEA software developed in Japan by JSOL Corporation. POWERSYS provides strong technical added value in highly complex and advanced multi-disciplinary Analysis problems for all matters concerning the simulation tools and its applications. From engineering services to software development, POWERSYS offers to industry, research and education a range of professional services covering electrical and electromechanical power systems.

Job summary:

This position will be responsible for the design, analysis and development of Electromagnetic Applications for use in e-mobility, renewable energy, and industrial/home appliance markets. The Engineer will work closely with potential and current customers, and other subject matter experts for benchmark studies, proposals, design, and development of electric motor technologies. This position is also responsible for identifying the prospect of R&D priorities that contribute to technology leadership within the market segments targeted for the future growth of JMAG and Powersys portfolio.

Job responsibilities:

You will be a member of the technical team and you will work closely with the business development teams particularly in the USA.

- Develop, organize, and deliver advanced technical training courses on the use of JMAG. Provide, track, and document high level technical support.
- Provide online and on-site technical support to customers primarily working with electromagnetic design including AC/DC motors (PMSM and IM) and power electronics drives, solenoids, sensors.
- Integrate motor models with control modules in MATLAB-SIMULINK, Abaqus, ModeFRONTIER software programs for automotive applications.
- Participate in and support internal sales and marketing initiatives to drive customer engagement, education, and grow technical capacity of JMAG
- Communicate technical outcomes in oral presentations and written reports
- Visit customer sites as well as tradeshow/conferences to disseminate the use of JMAG and present technical case studies

Education/Experience/Skill Required:

- A minimum of MS in Electrical Engineering with knowledge and understanding of Electromagnetics design and experience using JMAG FEA tool.
- The ability to perform through advanced electromagnetic engineering calculations to solve complex problems involving influences from the electrical, mechanical and thermal engineering disciplines.
- Familiarity with Concepts of Electrical Machines, Actuators/Solenoids, Magnetic Sensors/Transformers, and/or Wireless Power Transfer Devices
- Excellent problem-solving skills and ability to develop practical engineering solutions to difficult problems
- Excellent written and spoken communication skills
- Proven ability to work autonomously and to prioritize multiple projects and good organizational skills
- Ability to work individually and as part of diverse team environments to meet project goals



Preferred:

- Experience with advanced simulation tools and approaches including Design of Experiments, optimization, parallel and cloud computing
- Familiarity with other relevant FEA software or knowledge of other commercial CAE/CAD software packages is a plus
- Familiarity with common programming languages (C, C++, Python, etc.) and Basic programming and/or shell scripting skills is a plus
- Experience/knowledge of supporting and/or testing FEA software.

Particulars:

- Job located in California (San Diego area).
- Telecommuting permitted
- Job available as soon as possible.
- Salary: to be discussed

How to apply:

Send your resume and cover letter to:

Ms. Mireille Hue

Human Resources Manager

m.hue@powersys.fr - www.powersys-solutions.com