



Innovating Solutions

**KJT Enterprises Inc.**

11999 Katy Freeway, Suite 200  
Houston, Texas 77079, USA  
Tel: 713.532.8144  
Fax: 832.204.8418

[www.KMSTechnologies.com](http://www.KMSTechnologies.com)

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**Senior Engineer**

<b>Job Title</b>	Senior Engineer
<b>Position Location</b>	Houston
<b>Reporting Line</b>	Reports to the COO
<b>Subordinates</b>	Engineering Staff

**Job Description:**

The Senior Engineer is responsible for ensuring the tasks assigned to the KMS Lab are carried out in a proper manner, where appropriate by carrying these out directly, or by supervising those assigned to any subordinates.

Primarily, these tasks involve the production and manufacture of specific KMS products which presently cover the areas of marine, land and borehole electromagnetics integrated with seismic, although product lines are subject to change. Product responsibilities cover the entire technology spectrum from patents, product development, manufacture, and support to final field applications.

The position will also have direct customer interaction on an as needed basis.

Supervision of subordinates will include actively mentoring, appraising and ensuring the development of each, in addition to the day to day engineering and administrative supervision.

The position is expected to contribute to the overall development of the company.

## General Responsibility

The Senior Engineer is responsible for ensuring the tasks assigned to the KMS Lab are carried out in a proper manner, where appropriate by carrying these out directly, or by supervising those assigned to any subordinates.

In addition, the Senior Engineer is responsible for the administrative aspects of the facility including management of subordinates, and the operation of the infrastructure of the facility.

## Detailed Tasks:

- Responsible to ensure all design, development, maintenance, testing, manufacturing, and any other tasks assigned to the KMS Lab are carried out in a proper manner.
  - Where appropriate, by actually carrying out the task
  - Where appropriate by supervising or managing those carrying out the task
- Responsible to ensure there is always an updated task schedule. This includes:
  - A engineering task (development) schedule
  - A manufacturing schedule
- Responsible to ensure the agreed minimum inventory levels are maintained
- Responsible to ensure proper Purchase Order (PO) procedures are carried out
- Responsible to ensure proper shipping procedures are carried out
- Responsible for cost control within the KMS Lab
- Responsible to ensure all required documentation is produced and maintained. This includes, but is not limited to:
  - Inventory, purchase ordering, product documentation (incl. “Birth certificates”), project plans.
- Ensure KMS Lab infrastructure is properly maintained
- Responsible to ensure the company’s HSEQ policies are properly carried out in the KMS Lab.
  - In addition, actively participate in improving the company’s HSEQ performance.
- Responsible to ensure the company’s Human Resource (HR) policies are properly carried out in the KMS Lab
  - Where required, this includes mentoring, training and appraisals of subordinates
- Promote new ideas to improve the company e.g. through efficiency, cost reduction, product improvement etc.

**Experience requirement:**

- At least 5 years in electrical engineering experience.

**Technical Qualifications:**

- Bachelor or Master degree in electrical engineering, electronics engineering or similar discipline
- Capable to design, build and test electrical assemblies, and analog and digital component level electronics
- Capable of firmware and software design and development

**Preferred skills:**

- Schematic and layout with Orcad Capture and layout
- Firmware in C language with embedded operating system (FreeRTOS) under Atmel Studio
- Microcontroller, such as AVR32 from Atmel
- FPGA design using VHDL with Actel SoC development software
- Low noise amplifier design experience
- Software development using C# with Visual Studio .NET
- Data analysis with Matlab

**Personal Qualifications:**

- Fluent in spoken and written English
- Must show a strong awareness and commitment to HSEQ
- Ability to work under pressure
- Good analytical, communication and motivational skills
- Ability to organize, supervise and motivate co-workers

**Physical Requirements:**

- Must be able to carry out field experiments in extreme weather conditions.
- Must be able to operate in trucks, trailers and offshore vessels.

**Travel Requirement:**

- Must be prepared to travel internationally as necessary, including offshore.

**Other Requirements:**

- Strong business sense coupled with the commitment to assist in delivering world-class products.