



Position: Low Temperature Co-fired Ceramic (LTCC) Magnetics Design Engineer
Reports to: General Manager, NASCENTechnology, Inc.

Job Purpose

Reporting to our General Manager, the LTCC Design-Engineer will plan, design, develop and assess products for contracts with government and private industry clients. Our proprietary designs support military projects, and we are expanding into implantable electronics. This new position has the responsibilities to prepare or direct preparation of specifications and drawings, define tests to be conducted on new designs, and critically evaluate test results. An important component to the NASCENTechnology team, this role will also be expected to recommend or develop design changes on existing and new products. This Design-Engineer will also transact directly with customers when required, supporting assigned products and projects in a strategic and knowledgeable capacity.

Job Duties

- 1) Develop Low Temperature Co-fired Ceramic (LTCC) transformer and inductor designs to meet customer needs and *manufacturability* requirements with a focus on the implantable electronics field.
- 2) Use design software such as Ansoft Maxwell, AutoCAD LT, Microsoft Excel, Pspice, and Matlab to improve design and customer support.
- 3) Develop technical documentation in the form of technical bulletins and application drawings for products.
- 4) Work independently to define and complete multiple assigned tasks and small projects.
- 5) Stay current with industry standards as required by project and product assignments.
- 6) Efficiently and effectively complete projects according to timeline.
- 7) Form effective working relationships with customers and internal resources.
- 8) Communicate effectively and accurately in English (written, verbal, and graphically) as needed.
- 9) Assist in planning and implementing larger projects.
- 10) Stay current with and follow U.S. Export Regulations such as International Traffic and Arms Regulations (ITAR).
- 11) Provide technical support to customers and NASCENTechnology sales and marketing efforts.
- 12) Evaluate samples of new designs and create preliminary specification drawings.
- 13) Responsible for cost effective materials and labor costs of new designs.
- 14) Air or road travel as necessary.
- 15) Mentoring and training of less experienced engineers and technicians whenever requested.
- 16) Other duties as assigned by supervisor.

Requirements

- 1) Due to requirements of U.S. Export Control Law under ITAR (22 CFR 120-130), only *U.S. Persons* will be considered for this position. A U.S. Person is defined as:
 - a U.S. citizen, or
 - a permanent resident (with a valid green card) who does not work for a foreign company, a foreign government, or a foreign government agency.
- 2) BSEE degree as a minimum.
- 3) Experience with hybrid microelectronics, low temperature co-fired ceramics, or magnetic components (wire-wound or multilayer).
- 4) Established record of accomplishments and analytical problem solving ability.
- 5) Able to work independently on routine assignments, after training.
- 6) Able to communicate effectively on technical topics.

- 7) Software proficiency in Microsoft Word, Microsoft Excel, AutoCAD LT, Pspice; Matlab and Ansoft Maxwell a plus.

Additional Information

Competitive wage based upon education and experience;
Full benefits package;
Must relocate to Watertown, South Dakota;
Website for Watertown, SD: <http://www.watertownsd.com/>