

Job Title: Sr. Design Engineer

Description: Ultrasonic design engineer in product development group.

Responsibilities:

- Responsibilities include comprehensive engineering planning, design, and manufacturing studies of specified project development for custom transducers and systems.
- Responsibilities will include developing engineering concepts, designs, specifications, cost estimates; prepares written reports, technical and material specifications for manufacturing operations associated with various projects and production support
- Preparation of project documents and related justification, budget analyses, calculations, plan, specifications, cost estimates and schedules
- Individual determines scope of work, prepares requests for proposals, bid reviews, etc
- Assists in updating manufacturing standards in accordance with ISO 9001 and company policies.
- Customer interaction to develop transducer requirements.
- Develops the utilization of computer programs for the analysis and solution of engineering problems, etc

Requirements:

- Education includes a Bachelor of Science degree in mechanical or electrical engineering or other approved engineering curriculum or equivalent experience in related field of design
- Must have minimum of five years increasingly responsible engineering experience
- Must have knowledge of mechanical and / or other engineering principles and techniques in ultrasonic transducer design.
- Experience designing transducer assemblies for extreme conditions (pressure, temperature, etc).
- Experience with ultrasonic transducer design in any of the following industries: oil (downhole), medical (imaging, sensing, low intensity therapy), HIFU (high intensity focused ultrasound - medical / industrial) high - power, industrial sensing - NDT, etc
- Ability to write specification and create accurate and timely project drawings
- Requires computer skills, 3-D CAD experience, finite element analysis, computerized modeling
- Must be able to prepare schedules, cost estimates, interpret engineering design drawings, standards, etc
- Requires excellent oral and written communication skills.
- Travel to customer sites- 10%.

Preferences:

- Experience with ultrasonic and FE modeling using COMSOL
- Experience with SolidWorks

- Basic electrical knowledge and electrical testing experience
- 10 years experience.
- Machine shop experience.

Benefits:

- Insurance
- 401k with limited matching
- Holidays and vacation
- Profit sharing
- Relocation will be considered
- Other benefits