

## Senior Ultrasound Biomedical Engineer

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**Openings:** 1 (Bangalore, India)

**Experience:** 10+ years

**Employment Type:** Full Time

**Education:** PhD

### **Job Description:**

Looking for experienced systems design engineer with ability to design end to end diagnostic and point of care ultrasound solutions. Experience with traditional DAS ultrasound and next generation technologies (Plane Wave, micro Beamforming, etc). Ideal candidate will be familiar with all traditional modalities and various doppler imaging modalities as well as next generation emerging technologies and algorithms.

### **Should have expertise in:**

- Understanding of the current and future ultrasound technology trend, from sensor technologies to core fast time algorithm to post processing.
- Design and verify key ultrasound algorithms in MATLAB or Python
- Understanding of real time ultrasound algorithm implementation on FPGA and GPU
- Participate in the development of ultrasound machine from initial concept to final image tuning in these key area:
  - Initial concept phase: selecting the appropriate algorithm chain
  - Development phase: work with the DSP engineers on algorithm design and verification
  - System bring up phase: work with the hardware and software engineers on debugging system issue in the data path
  - Image tuning phase: work with engineers and sonographer on algorithm and image tuning to obtain the best possible clinical images

### **Good to have expertise in:**

- A specific key domain knowledge in ultrasound either in a imaging/therapeutic modality, or particular image forming algorithm, or sensory material science.
- Publish ultrasound related paper in IEEE/SPIE/RSNA or other relevant ultrasound journals or conference proceedings.