

Project Staff (Simulation in Acoustics)

Background and qualification: MTech or PhD with expertise in modelling and simulation in acoustics using software tools, good understanding of theoretical aspects of acoustic waves and computational techniques

Required skills:

- Expertise using commercial software tool Comsol for simulation in acoustics
- Expertise in modelling acoustic and piezoelectric transducers
- Strong understanding of theoretical aspects of acoustic wave propagation and scattering
- Expertise in modelling and analysis of piezoelectric sensors/ultrasonic sensors/sonar
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Job roles and responsibilities:

- You will be responsible for simulation of acoustic transmission, propagation and scattering with ultrasonic sensor array, geometric features and free-space medium, various parametric studies and statistical data analysis,
- You will interface with other team members within and outside organization for characterization and reconstruction of sensor signal and further implementing the reconstructed data into simulations,
- You will prepare technical documents and present simulation results, participate in technical review, implement recommendations and suggested improvements.