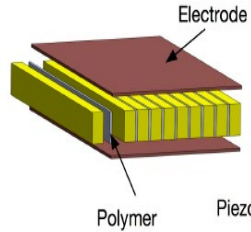
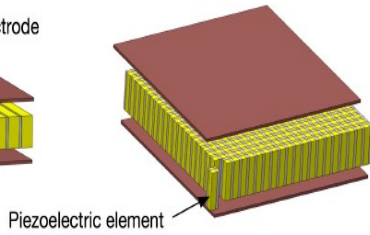


2-2 composites



1-3 composites



Purpose and aim:

For making the more efficient ultrasonic transducer with higher electromechanical coupling coefficient (k_t) and lower acoustic impedance (Z)

Evaluation and simulation of LiNbO₃ (Lithium Niobate) piezocomposite ultrasound transducer with centre frequency of 3MHz.

Working on 1-3 and 2-2 piezocomposite of LiNbO₃ and polymer in both **Z-cut** and **36°/Y-cut**.



Bahareh Malekianarani
Bahareh.malekianarani@gmail.com
Master of Science in Micro and Nano
Systems Technology

Supervisor: Professor Lars Hoff
Lars.Hoff@usn.no

Co-supervisor: Josh, Hoi Yi Siu
Hoi.Siu@usn.no