A funded Ph.D. position for intelligent sensing at UMass Amherst
University of Massachusetts, Amherst

Job Description

A Ph.D. Position in the Intelligent Sensing Laboratory (ISL) at UMass Amherst

A fully research-funded Ph.D. position is available in the Intelligent Sensing Laboratory (ISL) in the Institute for Applied Life Sciences (IALS) at the University of Massachusetts (UMass), Amherst. High priority will be given to highly qualified candidates who are available to start in the Fall 2021 or earlier. The ideal candidates will have a profound interest in both fundamental and applied research in predictive diagnosis and machine learning and their applications in machine condition monitoring (such as vibration, temperature sensing) and flexible electronics manufacturing.

Research topics
• Deep learning
• Machine condition monitoring

Required Qualifications
• Undergraduate in mechanical, electrical computer engineering or computer science
• Experience in sensor fusion or machine learning algorithms
• A burning desire to conduct both theoretical and experimental work
• Highly self-motivated and persistent in solving practical experimental problems

Required Skills
• Programming in Matlab, Python, LabVIEW or C/C++ for data acquisition and processing
• Experiments design, data collection, processing and analysis

Preferred Qualifications
• Peer-reviewed conference and journal publications
• Strong technical writing, communication and presentation skills

Note: your strong interest and hand-on experience to work on and solve practical engineering problems will be more important for this lab than any skills and qualifications.

The successful applicants will join a vibrant team of students working in the Intelligent Sensing Lab that is focused on the translational machine intelligence and innovative sensing techniques for flexible electronics manufacturing and medical devices. This is an exciting time to join because UMass is going through a substantial growth in the area of scale up of intelligent flexible electronic roll to roll manufacturing for low-cost, multi-function, wearable wireless sensor systems for personalized health care and biometric monitoring.

A start on September 1st, 2021 or earlier is preferred for exceptional applicants who submit their application ASAP. Applicants are strongly encouraged to contact Prof. Xian Du at xiandu@umass.edu.
Emailing Instructions
• Email Subject: Ph.D.
• Email to xiandu@umass.edu
• In your email, please state the specific area you are interested in.

Please include the following attachments to your email
1. CV (curriculum vitae)
2. Cover letter.
3. List of peer-reviewed publications, if available
4. Three references