A Post-Doctoral Fellow position, anticipating to start in January 2020, is available in the Acoustics Lab (Co-PIs: Drs. Anthony Brammer and Insoo Kim), Department of Medicine at University of Connecticut School of Medicine (UConn Health).

We are searching for candidates with equivalent qualifications and/or experience, to evaluate algorithms for improving speech intelligibility in noise. The work will involve simulating the noise of mine machinery from known frequency spectra and creating speech-in-noise test files using MATLAB for replaying to subjects. The test files may be processed electronically to improve intelligibility before the psychoacoustic testing.

The position requires:
1. Knowledge of, and practical experience with audio digital signal processing;
2. Proficiency with MATLAB and Simulink simulations;
3. Familiarity with formal psychoacoustic testing of speech intelligibility in noise (e.g., Modified Rhyme Test);
4. Familiarity with development of embedded systems or Digital Signal Processors (DSPs).

The candidate will participate in on-going research projects and be responsible for implementing the algorithms for improving speech communication in noise, conducting all psychoacoustic tests used to establish proof-of-concept, and the data analysis and interpretation. He/she will also have opportunities to supervise graduate and undergraduate students. The candidate should have good oral and written English communication skills, be capable of independent work as a part of a multi-disciplinary team, be able to work on multiple projects at the same time, publish results in academic journals and participate in grant proposal preparation. Applicants should have a Ph.D. degree in Acoustics, Electrical, Computer, Biomedical Engineering, or a related field with appropriate experience. The initial appointment is for a period of one year with potential for further extension. The review of applications will start immediately and will continue until the position is filled.

To apply for this position, send the following documents in PDF format to Dr. Insoo Kim (ikim@uchc.edu):
• a one page research statement that describes your research interests and experience,
• a vitae (CV) including references (names and contact details) and a full list of publications,
• copies of the most relevant publications (optional).