Center for Robust Speech Systems
Cochlear Implant Processing Lab
Erik Jonsson School of Engineering & Computer Science
University of Texas at Dallas, Texas, USA

POST-DOCTORAL POSITION

Cochlear implants are one of the most successful solutions of replacing hearing sensation via an electronic device. However, the search for better sound coding and electrical stimulation

strategies could be significantly accelerated by developing a flexible, powerful, portable speech processor for cochlear implants compatible with current smartphones/tablets. We are developing CCi-MOBILE, the next generation of such a research platform, one that will be more flexible and computationally powerful than clinical research devices that will enable implementation and long-term evaluation of advanced signal processing algorithms in naturalistic and diverse acoustic environments. To this end, we are seeking a **post-doctoral researcher** in the area of **cochlear implant signal processing and embedded hardware/systems design**. The researcher will collaboratively aid in the development of an embedded (FPGA-based) hardware (PCBs) for speech processing applications. Firmware development in Verilog and Java (Android) for DSP algorithms implementation is also an important task for the project.
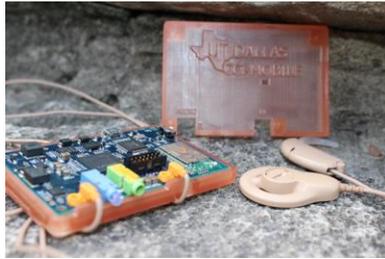
- Founded in 1969, The University of Texas at Dallas is ranked No. 1 in the United States for universities less than 50 years old (Young University Rankings report from Times Higher Education).
- UT-Dallas is the youngest institution and third overall in Texas to be recognized for the state's National Research University Fund as a 'Tier One' University.
- UT-Dallas is located in the Dallas-Ft. Worth (DFW) Metroplex, home to the telecom corridor which consists of over 800 high tech corporations, the second largest concentration of high tech corporations in the United States.
- Companies such as Texas Instruments, AT&T, Cisco Systems, Lockheed-Martin, Samsung, Raytheon, HP, Toyota, and others have major research groups in the Dallas Metroplex area.

Those interested should send an email with their resume and areas of interest to John.Hansen@utdallas.edu. More information can be found on our website: CRSS–CILab (Cochlear Implant Processing Lab) at https://crss.utdallas.edu/CILab/