



Senior Audio DSP Engineer

Location: Boston, MA

We are searching for a brilliant audio DSP research engineer with significant psychoacoustic experience. You will be the key R&D / technical mind within our software team which develops and codes audio algorithms for SoundCheck, Listen's flagship electroacoustic test software. This unique position faces both intellectual and business challenges and requires commitments to following-through, testing, and implementation in order for the team to deliver critical software releases. You will get to mentor and train less experienced team members, as well as contribute to technical papers which are presented at conferences such as AES.

A proven track record with audio DSP and signal processing algorithms is essential, as well as a strong background in psychoacoustics as perceptual audio measurements are a key focus in Listen's product development. You will have experience and accomplishments turning concepts proposed by management, customers and team members into reality by developing, coding, testing, integrating, and correlating them to human listeners and existing methods. Holding high standards, paying strict attention to detail, and taking pride in your work as well as having a willingness to collaborate and openly discuss challenges with others are key attributes that are required for this role.

The Product

SoundCheck is a powerful large scale LabVIEW-based electroacoustic test software solution, used for R&D and production line testing of loudspeakers, microphones, hearing aids, telephones, headphones, headsets, MP3 players, and other audio electronics. It is a commercial product with an annual release cycle to keep pace with changing test requirements and to add functionality. The product has a rich 20 year history, and is the accepted standard in many blue-chip and Fortune 500 companies worldwide.

Skills and Education

- Master's degree or Doctorate in Electrical Engineering, Physics, Mathematics or a similar subject
- 5-10+ years in DSP algorithm development, ideally for test & measurement applications
- Understanding of audio test and measurement, speech, music, psychoacoustics
- Strong knowledge of signal processing for metrology applications including filters, time and frequency analysis, adaptive filtering, and audio CODEC architecture.
- MATLAB, C++, C#, LabVIEW and/or similar software platforms
- Thorough knowledge of acoustics standards including IEEE, ITU, TIA, ANSI and AES, as well as perceptual acoustics standards like PEAQ, PESQ, and POLQA.
- Methodical approach to coding, testing and documentation.
- Experience or interest in either acoustics or sound and vibration engineering
- Proven self-starter, who can manage and prioritize workload to meet product development deadlines
- Ability to mentor and train others

Please send resume and cover letter to softwarejobs@listeninc.com with the subject line 'Senior DSP Engineer'.

About Listen

Listen is a world leader in audio test and measurement systems. We have been in business since 1995, and offer the spirit and flexibility of a small company, combined with the stability of an established



company with a 20 year track record of steady growth. In addition to a competitive salary, the company offers an externally managed benefits package which includes healthcare, 401k, paid vacation, and more. Listen's culture offers refreshing flexibility, internal mobility, and open accessibility to leadership.

SoundCheck, our flagship product, is a powerful large scale LabVIEW-based electroacoustic test software solution. It is used for R&D and production line testing of loudspeakers, microphones, hearing aids, telephones, headphones, headsets, MP3 players, and other audio electronics. The product has 20 year track record of innovation, and is the accepted standard in many blue-chip and Fortune 500 companies worldwide.

Listen, Inc. is an equal-opportunity employer.