



Senior Ultrasonics Scientist

United States

About Resonado

We develop proprietary speaker driver technologies powering the next generation of audio products.

Resonado Labs is an American audio technology company founded in 2017. Resonado revolutionized the audio industry with the introduction of Res-Core™, a proprietary motor that enabled high-performance racetrack drivers, a new category of electrodynamic loudspeakers tailored for modern audio products.

Today, Resonado develops designer drivers for brands and manufacturers engineered with Res-Core motors and high-tech tactical communication systems for the United States Air Force and Special Operations Command. Resonado's team is dedicated to drastically enhancing the delight factor of audio products for listeners worldwide - driven by radical, high performance engineering at the core.

Job Description

Resonado's Chicago headquarters is looking for a motivated and creative candidate with a passion for loudspeakers to join the company's U.S. Frontier Engineering team. Candidates should be ready to take on new challenges by assuming a highly visible role in a small, yet ambitious organization and expect extensive collaboration across departments. Our company maintains a horizontal organizational culture with a strong emphasis on meritocracy. With transparent communication and open channels welcoming new ideas, Resonado is an ideal environment for an experienced engineer looking to become an early member of a rapidly expanding company poised to bring a new wave of innovation to the audio industry.

Responsibilities

- Driving research and development of high potential acoustic technologies as a transducer engineer on a creative and agile team
- Conducting advanced acoustic simulation and testing, stand-alone and in system, using systems such as COMSOL and Klippel
- Building prototype transducers and systems and completing reliability and quality testing
- Working with sub-component vendors and supply chain partners to source and manufacture various components
- Work with Resonado's manufacturers, partners, and customers on loudspeaker design, end-product integration, production, etc.
- Collaborating with mechanical engineering and other teams to drive development into final product
- Becoming a leading expert on Resonado's proprietary acoustic technologies and contributing to the expansion of the company's intellectual property portfolio



Qualifications

Required

- Passion for creating cutting edge and innovative products
- 5+ years of professional ultrasonic transducer and system design, development, and manufacturing experience
- Practical expertise in audio analyzers including Klippel R&D/QC, Audio Precision APx, Listen, or a similar system
- Working knowledge of FEM and BEM simulation methods for magnetic circuits, acoustics, and mechanics
- Thorough understanding of ultrasonic transducer design methods, optimization, sub-components, materials, assembly techniques, and manufacturing
- Must be qualified to work in the U.S. and have no restrictions for international travel
- Ability to commute to Resonado's Chicago office in River West on a daily basis

Preferred

- Passion for acoustics and improving how people experience sound
- Experience building and leading a team
- Experience with ultrasonic transducer arrays
- Experience working with assembly contract manufacturers and sub-component vendors
- Experience working with audio programming and signal processing
- Strong communication and presentation skills including project planning, documentation of technical requirements, and technical presentations
- Experienced in conceiving, writing, and publishing patents
- Self-driven engineer
- Members of our engineering team have degrees in Acoustics or a similar field (mechanical or electrical engineering, physics, etc.), but if you have taken a different route to gain the required experience, that is acceptable

Resonado Labs evaluates qualified applicants without regard to race, color, religion, sex, sexual orientation, gender identity, genetic information, national origin, age, disability, veteran status, or any other legally protected characteristics. All inquiries should be directed to hello@resonado.com.