



Job Description for Research Scientist:

At AWE Technologies LLC, we identify and manipulate physical properties of fluids and matter non-invasively by utilizing wave theories from optics, acoustics, microwave, and electromagnetic. AWE also deploys unique imaging and acoustic separation technologies for various biomedical and industrial applications. Our scientists focus on innovation, solving challenging problems, and creating solutions from visionary science for a better life with transcendent technologies for a safer world. Our unique solutions with disruptive potential utilize a variety of sensor technologies. We take a broad multi-disciplinary view in addressing needs from customers in different markets and bring the expertise from decades of experience in solving challenging technical problems from both industry and US government.

This unique position will be part of a small team focused on technology innovation and developing novel sensing approaches. This person will be reporting directly to the cofounder and chief technology officer of AWE Technologies.

Job Summary

We invite applicants who are interested in working on a range of applied research projects that extend from energy-related sensors, threat reduction to biomedical applications. The primary objective of the research is to solve practical problems for the industry and government. The work involves development of new techniques, customized instrumentation, and measurement validation. The successful candidate will be expected to contribute to the development of new sensor technologies and patents. There will be opportunities to work in a wide range of areas that extend beyond acoustics to optics, EM waves to chemistry. You will be engaged in the product development process from concept to commercialization. This is a unique opportunity for rapid growth and we invite you to become part of our mission to help change the world for the better.

Required Skills

- Strong background and demonstrated hands-on experience in one or more areas: Sensor technologies in general, Ultrasonic techniques, Nondestructive measurement techniques, Wave propagation measurements, Numerical Analysis, Signal processing, Computer-controlled experimentation.
- Fluency in one or more Computer Programming Languages (e.g., Python, Matlab, C++, Mathematica, etc.).
- COMSOL Multiphysics modeling
- Possess extensive hands-on experience in designing and conducting experiments.
- Demonstrated experience in conducting original scientific research through peer reviewed publication record.



- Excellent communication skills in English (both oral and written)
- Knowledge of electronics and of typical laboratory test instruments.
- Demonstrated ability to work independently and with minimum supervision.
- Ability to adapt to new requirements for projects and be flexible enough to learn new areas of research as needed.
- Able to work effectively as part of a team in a multi-disciplinary environment and interact effectively with people with a variety of expertise
- Demonstrated ability to plan and organize assigned tasks so that schedules are met on time.

Minimum Qualifications

- A PhD in Applied Physics or in engineering discipline (e.g., mechanical, electrical, chemical, Biomedical). An MS with extensive and relevant industry experience will also be considered.
- Retired scientists and engineers with many years of work experience are most welcome to apply. (Part time and full time positions available)
- Scientifically creative thinker with a visionary, optimistic outlook.
- A strategic planner with sound technology skills, analytical ability, good judgment and strong operational focus
- Adaptable, resourceful and entrepreneurial, undaunted by technical and operational challenges.
- Adept at navigating complex and rapidly evolving organizational structures to get work done
- Maintain high level of trust and integrity under strict confidentiality

Competencies:

- Dedicated, respectful, and willing to put in the effort to realize the opportunity and vision to change the world
- Eager and quick to learn new and better ways to execute technology solutions
- Highly organized
- Thrives in a dynamic & collaborative environment
- Scientifically creative with a curious mind
- Entrepreneurial resourcefulness
- Intellectual property savvy
- Outstanding communication skills (written and verbal)
- Exemplary ability to understand the interests and intentions of all stakeholders

Please send resumes to:

jobs@awetech8.com

Our main office and Laboratory is in a 9500 sq-ft. facility located in the South Shore of Long Island, NY with a Satellite office at: 100 N Clinton Avenue, Bay Shore NY 11706