SIGNAL PROCESSING ENGINEER

Raptor Scientific, a Global Aerospace & Defense Test and Measurement Company, is seeking an exceptional individual with expertise in electromagnetic signal processing to join our dynamic team. You will have the opportunity to work on challenging projects that demand a deep understanding of signal processing algorithms and imaging techniques for radar data. Your expertise in handling I/Q data and proficiency in programming languages such as C, C#, and MATLAB will be instrumental in driving our technological advancements. In this role, you will play a pivotal part in developing and optimizing advanced technologies that will enhance the performance and capabilities of our mission-critical aerospace and defense systems.

As part of the Raptor Scientific Family, the RF Systems (RFS) group specializes in radar cross section (RCS) measurements and is constantly innovating to produce the next generation of radar systems. RFS has a multifaceted team that develops cutting edge measurement systems in support of the Aerospace and Defense industry. Our team is focused on customer needs and providing full spectrum support including engineering, field measurement, software development and manufacturing.

We are conveniently located off I-580 and Greenville Road providing easy access to South Bay and Valley commuters. You can learn more about our company by visiting our website at: Global Provider of Test & Measurement Solutions | Raptor Scientific (raptor-scientific.com). The full-time hours for this position are Monday through Thursday, 7:30 a.m.–5:00 p.m. and every other Friday 7:30 a.m. - 4:00 p.m. A full benefits package is available after 90 days.
Salary Range - $110,000 – $150,000 depending on experience.

PRIMARY RESPONSIBILITIES

- Analyze and interpret complex data sets to extract meaningful insights and optimize system performance.
- Collaborate with cross-functional teams to integrate signal processing algorithms into real-world applications.
- Design, develop, and implement cutting-edge algorithms for efficient signal processing, visualization and imaging applications.
- Stay up to date with the latest advancements in signal processing and imaging technologies, identifying opportunities for innovation and improvement.

QUALIFICATIONS

- Bachelor's degree or higher in Signal Processing, Applied Mathematics, Engineering or a related field, at a minimum.
- 4- 7 years of hands-on work experience.
- Experience in applying signal processing algorithms to real-world applications.
- Proficiency in programming languages such as C, C#, MATLAB, or Python.
- Strong background, expertise, and hands-on experience in signal processing, including filtering, detection, estimation, and classification.
- Solid understanding of statistical analysis and data visualization techniques.
- Excellent problem-solving skills with a strong analytical mindset.
- Effective communication and teamwork skills to collaborate with cross-functional Engineering teams.
- Physical ability to lift or assist in lifting large items up to 40 lbs.

PREFERRED QUALIFICATIONS

- Master's degree or higher in Signal Processing, Applied Mathematics, Engineering or a related field.
- Knowledge of radar cross-section (RCS) analysis and techniques.
- Familiarity with back projection techniques and their application to radar imaging.
- Experience in the aerospace and defense industry.
- Knowledge of radar systems, communication systems, or electronic warfare.
- Familiarity with machine learning techniques and associated signal processing.

Please send resumes to: rfs-recruiting@raptor-scientific.com

This position requires use of information which is subject to the International Traffic in Arms Regulations (ITAR). All applicants must be U.S. persons within the ITAR definition of: “A U.S. person as a U.S. Citizen, U.S. Permanent Resident (e.g., “Green Card Holder”), Political Asylee, or Refugee.”

RFS is an affirmative action/equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, marital status, national origin, ancestry, sex, sexual orientation, disability, medical condition, protected veteran status, age, citizenship or any other characteristic protected by law.