Position: Systems & Software Engineers –
Applied Artificial Intelligence & Machine Learning

One global team creating trusted, innovative solutions to make the world a safer place…..

Raytheon IDS conducts 25 Billion USD per-year in sales, but what attracts brilliant minds to Raytheon is the extraordinary technology and tremendous job satisfaction that comes with keeping our nation and allies safe. Raytheon is pioneering a push to couple machine learning and advanced/deep learning algorithms to improve the development, deployment, and sustainment of reliable cost-effective cyber-secure defense systems by increasing effectiveness, providing new capabilities, and optimizing supply chain efficiency.

IDS is one of four major Raytheon businesses and is headquartered in Tewksbury, MA. We have local facilities in Woburn, MA; Marlborough, MA; Portsmouth, Rhode Island; and Pelham, NH as well as other sites in the US and around the globe. Our focus areas include: Integrated Air & Missile Defense; Mission Systems & Sensors; Seapower Capability Systems; and Advanced Technology – all of which are looking to further incorporate Machine Learning and Big Data Analytics into their portfolio of capabilities.

Raytheon is known for its innovative and inclusive culture. We welcome diversity and collaboration and provide numerous opportunities for career growth. Our benefits are superior within and across industries and include: Holiday time, Paid Time Off (PTO), Flexible Schedules (9/80, Modified Time, Part-time, Telecommuting), 401K, Retirement Income Savings, Employee Discounts, Performance Sharing, Educational Assistance, Continuous Learning and much more.

Job Description

We have multiple job opportunities for Systems and Software engineers with applied artificial intelligence (AI) and machine learning (ML) skills. The ideal candidate will join a multidisciplinary agile group of engineers focused on applying state of the art ML approaches to a variety of customer problems. Modern ML approaches are inherently multidisciplinary, integrating concepts from Computer Science, Mathematics/Statistics, Physics, Neuroscience, Data Science, and other fields. Ideal candidates will have demonstrated the interdisciplinary breadth needed to integrate concepts from these technical fields to improve mission performance in areas such as radar systems, command and control, maritime and undersea sensing, vehicle autonomy, logistics and sustainment, and cyber security.

Required Qualifications:

- A Bachelor's or Master's Degree in Engineering, Science, Mathematics, or a related discipline with an emphasis on AI/ML
- Sound knowledge of computer science, mathematics, and statistics
- Experience programming in some combination of Java, Python, and C++ in an agile development environment
- Solid working knowledge of Linux and/or MS Windows programming environments
• Experience with one or more scientific analysis and prototyping environments such as the SciPy/NumPy stack, MATLAB, or R, or with an ML framework such as Caffe or TensorFlow
• Good communication and presentation skills
• An exceptional individual interested in working collaboratively on challenging problems of importance to our nation’s defense
• US citizen with ability to obtain a security clearance within ~1 year of start date

Desired Qualifications:
• 2(+) years of applied AI/ML experience in the field of engineering or a related technical discipline
• Prior experience with DoD Radar Design and Development Programs
• Strong analytical background
• Knowledge of work within the Agile Scrum development practice
• Detail oriented, self-starter to perform independently
• Good communications skills, with the ability to develop, document, and maintain processes, methods and tools
• High proficiency in MATLAB and Python are a plus
• Existing DoD Security Clearance – Secret or above

Raytheon Contact Info:

Please contact the individuals below with job opportunity questions, to request a formal interview at a Raytheon facility, or to request a job-screening interview. Job-screening interviews may also be requested in advance of or during the 2020 MIT Analytics Career Night event.

Mike Salpukas (Present at Career Night)
Engineering Fellow – Machine Learning
Systems Architecture, Design, and Integration Directorate
Raytheon Integrated Defense Systems
235 Presidential Way
Woburn, MA 01801
339-645-8927 (W)
michael_r_salpukas@raytheon.com

Rick LaRowe
Engineering Fellow & SW Tech Director
Software Engineering Directorate
Raytheon Integrated Defense Systems
50 Apple Hill Drive
Tewksbury, MA 01876
978-858-9716 (W); 978-394-5464 (C)
richard_p_larowe@raytheon.com