Position: Senior Systems & Software Engineers – Big Data/Data Analytics

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 Senior Systems and Software engineers with strong educational backgrounds and/or experience in Big Data and Data Analytics processes, tools, and technologies. The ideal candidate will join a multidisciplinary agile group of engineers focused on applying state of the art Big Data Analytics and Machine Learning (ML) to a variety of internal and customer problems. Big Data Analytics requires multidisciplinary skills, integrating concepts from Computer Science, Mathematics/Statistics, Data Science, and other fields. Ideal candidates will have demonstrated an ability to work on interdisciplinary teams and will have opportunities to work with military and intelligence community experts, as well as university and small business technology research providers, to leverage Big Data Analytics to improve mission performance in areas such as radar, command and control, maritime and undersea sensing, vehicle autonomy, logistics and sustainment, and cyber security.

Required Qualifications:

- A Masters PH.D. Degree in Engineering, Science, or Mathematics; or a Bachelor’s Degree with minimum 4(+) years of experience in the field of engineering or a related technical discipline
- 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 widely used open source Big Data architecture stacks such as NoSQL and Apache stack data environments (Hadoop, Spark, Cassandra, etc.)
• Experience with real-time and/or high performance computing, cluster computing, data storage, and networking environments, such as use of GPUs, neuromorphic computing, and cloud-based 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
• Experience and understanding of quantitative performance analysis
• 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:
• Familiarity with self-service data preparation and workflow management tools such as Alteryx, Tamr, Paxdata, Trifacta, etc.
• Experience with data visualization applications such as Tableau, RShiny, Plotly, Microsoft PowerBI, Qlik, Looker, SAP Lumira, etc.
• Background in AI, ML, data science and analytics, game theory, intelligent agents, and related techniques is desirable
• Experience across the software lifecycle, including architecture definition, design, implementation, integration and test of complex systems
• Experience in radar or sonar technologies, command and control systems, Cyber defense, or US Department of Defense (DoD) mission areas.
• 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 will be conducted in the Raytheon Interview Room at the Media Lab on February 6th and can also be requested in advance or during the 2019 MIT Analytics Career Night event.

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