Vanguard’s Investment Management Fintech Strategies (IMFS) team is looking to hire a Fintech Engineer to join our team. IMFS seeks to explore emerging technologies that will dramatically improve investment performance and revolutionize capital markets. The team works directly with Vanguard’s investment management teams to experiment with, build, and deploy products that drive our mission. We work in a fast-paced environment that delivers meaningful impact to investment teams. Technologies that we are working with include blockchain and distributed ledger technology, AWS cloud technology (serverless architecture, etc.), data science technology related to machine learning and natural language processing, augmented and virtual reality technology, and many other technologies that enhance the capabilities of investment teams. IMFS has also broken down traditional barriers of bureaucracy that typically exist in large corporations.

As a Fintech Engineer your job duties and responsibilities include, but are not limited to:
- Researching newest trends and technologies in the fintech space.
- Continuous pursuit of developing your acumen across the appropriate technical spectrum.
- Rapid development of prototypes to prove concepts proposed by investment teams.
- Working with latest cloud technologies to efficiently deploy applications to investment teams.
- Developing tools to enhance team productivity and deployment.
- Participation in design, code, and testing throughout the life-cycle of products.
- Building relationships with other IT leaders, architects, and technical specialists for the purpose of advancing proposed solutions.
- Working with external partners (academic, industry, and start-up) to generate ideas, test new products and data sources, and bringing those capabilities into our cloud test labs.
- Assisting data scientists with required tools and infrastructure.
- Developing and maintaining strong understanding of investment management business functions and data structures.
- Collaborating on cross-functional teams, leveraging all backgrounds and expertise, to thrive in a fast-paced and sometimes ambiguous environment.
- Providing thought leadership and expertise.
- Participation in special projects and other duties as assigned.

**Required qualifications:**
- Undergraduate degree or equivalent combination of training and experience in computer science, computer engineering, or other STEM degrees. Graduate level degree is preferred.
- Strong knowledge in some of the following: Python, R, Javascript, single-page applications, AWS, NoSQL, Hadoop, Spark, RDBMS – and desire and ability to learn more.
- Understanding of system architecture, including data modeling techniques, OOP, and design patterns.
- Strong-written and oral communication skills.

**Desired qualifications:**
- Experience with or desire to gain superior knowledge of financial markets and investment management.
- Experience in cross-functional teams and/or start-up environments.
- Full stack development expertise.

**Additional Notes:**
- This job, and Vanguard’s global headquarters, will be located in Malvern, Pennsylvania (suburbs of Philadelphia)
- IMFS is willing to hire international candidates.

**Who is Vanguard?**

**About Us**
From our beginning in 1975, Vanguard set course as a very different kind of investment firm. Our purpose remains: "To take a stand for all investors, to treat them fairly, and to give them the best chance for investment success."

$5.2T global assets under management.*
401 mutual funds worldwide.*
20M clients worldwide.**

*as of 7.31.2018
**as of 4.23.2018
Vanguard’s Investment Management Fintech Strategies (IMFS) team is looking to hire a Fintech Data Scientist to join our team. IMFS seeks to explore emerging technologies that will dramatically improve investment performance and revolutionize capital markets. The team works directly with Vanguard’s investment management teams to experiment with, build, and deploy products that drive our mission. We work in a fast-paced environment that delivers meaningful impact to investment teams. Technologies that we are working with include blockchain and distributed ledger technology, AWS cloud technology (serverless architecture, etc.), data science technology related to machine learning and natural language processing, augmented and virtual reality technology, and many other technologies that enhance the capabilities of investment teams. IMFS has also broken down traditional barriers of bureaucracy that typically exist in large corporations.

As a Fintech Data Scientist your job duties and responsibilities include, but are not limited to:

1. Implements new data strategies for FinTech program under guidance from senior team members.
2. Understands and aids in development of process and data architecture, data preparation, and normalization.
3. Supports and maintains FinTech data architecture, software, and model libraries and process routines.
6. Develops understanding of Vanguard’s investment management processes across businesses and regions, as well as data and data structures underpinning those activities.
7. Establishes and maintains effective working relationships with other areas of Vanguard. Anticipates and coordinates business requirements that drive analytics implementation.
8. Develops and maintains knowledge of financial markets, securities, and general investment themes, and new technologies in order to bring an informed perspective to current financial technology landscape.
9. Creates and documents data architecture and data requirements for data sources within big data framework.
10. Continually grows and develops understanding of various statistical concepts and machine learning applications.
11. Participates in special projects and performs other duties as assigned.

**Required qualifications:**
- Undergraduate degree or equivalent combination of training and experience. Graduate level degree is preferred.
- Strong knowledge in some of the following: Python, R, AWS, predictive analytics, time series, natural language processing – and desire and ability to learn more.
- Strong-written and oral communication skills.

**Desired qualifications:**
- Experience with or desire to gain superior knowledge of financial markets and investment management.
- Experience in cross-functional teams and/or start-up environments.

**Additional Notes:**
- This job, and Vanguard’s global headquarters, will be located in Malvern, Pennsylvania (suburbs of Philadelphia)
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