Wells Fargo
Quantitative Associate Program

Identify. Develop. Deploy. Engage.

Wells Fargo's Quantitative Associate program is designed to provide the opportunity to gain comprehensive professional and industry experience that prepares them to develop, implement, calibrate, validate or audit various analytical models. Each successful hire will participate in a 12-month rotational program, followed by permanent placement.

Our **Capital Markets** track is open to graduating PhDs and offers Associates the opportunity to develop and validate mathematical models for pricing and hedging complex financial instruments. They will also educate the trading desk on the strengths and weaknesses of models and provide model analysis. After the 12-month program, Associates will be placed in one of the following areas: Securities Trading, Corporate Risk Analytics, Corporate Model Risk, Audit or Mortgage. Locations are Charlotte (NC), Minneapolis (MN), New York (NY) and San Francisco (CA).
- **Graduating PhDs interested in the Capital Markets track should apply to Job ID 5430033**

Our **Credit & Operational Risk** track is open to graduating PhDs and Masters candidates and provides Associates the opportunity to work with various lines of business to develop, validate, implement and calibrate statistical models for loss forecasting, credit risk scorecard, risk segmentation and stress testing for a variety of lending products and operational risk processes. Associates provide high-quality analytics to help our business identify, quantify, and mitigate risks. After the 12-month program, Associates will be placed within Credit or Operational Risk. Locations are Atlanta (GA), Charlotte (NC), McLean (VA), Minneapolis (MN) and San Francisco (CA).
- **Graduating Masters candidates interested in the Credit & Operational Risk track should apply to Job ID 5429999**
- **Graduating PhDs interested in the Credit & Operational Risk track should apply to Job ID 5429664**

Responsibilities
- Perform core mathematical and statistical model development, validation or auditing
- Lead and participate in model risk projects supporting varying purposes, methodologies and lines of business
- Stay up to speed on industry challenges and new and innovative modeling techniques to ensure Wells Fargo maintains "best in class" practice
- Understand credit & operational processes, work flows and issues to sufficiently document and recommend process improvements
- Understand business needs and provide possible solutions by explaining in clear verbal and written communications to management and fellow team members

Qualifications
- PhD or Master's degree in Mathematics, Statistics, Computer Science, Economics, Physics, Quantitative Finance, Operations Research, Applied or Computational Mathematics, Engineering or a related quantitative field
- PhDs should have an expected graduation between December 2018 and June 2019 (all requirements including thesis defense must be completed by June 2019)
- Masters candidates should have an expected graduation between December 2018 and June 2019
- Experience and ability to demonstrate first-hand knowledge in the areas of data analytics, modeling, statistical inference, computing, big data and machine learning
- Excellent computer programing skills and use of statistical software packages such as C++, Python, R, SAS and SQL
- Proven written and oral communication skills as well as interpersonal skills
- Demonstrated ability to prioritize work, meet deadlines, achieve goals and work under pressure in a dynamic and complex environment
- Ability to develop partnerships and collaborate with other business and function areas

Application and Interview Process

Interested applicants can apply online to the appropriate Job ID at www.wellsfargo.com/careers. The deadline to apply is November 15, 2018. **Resume submission should include a list of relevant graduate courses taken and a description of research as well as practical experience and projects. First round interviews will take place via phone during fall 2018. Final round interviews will occur at our offices in Charlotte (NC) in January 2019.

Please email **quantprogram@wellsfargo.com** for more information