Quantitative Analyst, Barclays

London, UK

Overview

Barclays moves, lends, invests and protects money for customers and clients worldwide. With over 300 years of history and expertise in banking, we operate in over 50 countries and employ over 140,000 people. We provide large corporate, government and institutional clients with a full spectrum of solutions to their strategic advisory, financing and risk management needs. Our clients also benefit from access to the breadth of expertise across Barclays. We’re one of the largest financial services providers in the world, and are also engaged in retail banking, credit cards, corporate banking, and wealth and investment management. For further information about Barclays, please visit our website www.barclays.com

The QA Asset Liability Management group is of central importance in managing the bank’s funding requirements and liquidity risk effectively. The scope of the group is broad, covering all asset and liability classes across both the investment bank and other clusters, including retail, wealth and corporate divisions. The primary role of the team is to develop and deploy industry leading behavioural models for measuring and managing funding and duration risk. The behavioural models apply primarily to banking book asset and liability products such as loans, mortgages, current accounts, term deposits etc and are used for forecasting future expected portfolio balances taking behavioural characteristics into account. These models are key components of the Comprehensive Capital Analysis and Review (CCAR), Barclays Funds Transfer Pricing system and support Barclays Group Treasury function in determining optimal funding strategies.

Main Function

This is a quantitative analyst role with responsibility for researching, implementing and maintaining behavioural models, to help support quantification and pricing of liquidity and funding risk associated with the bank’s asset / liability profile.

Main Duties

- Design, build and deliver robust and production quality behavioural models and code within a unified library for use within Treasury.
- Assist with the systematic review and on-going assessment of existing models for forecasting asset and liability behavioural balances.
- Apply robust statistical and data analysis methods in support of behavioural model development.
- Liaise with Treasury and business stakeholders to ensure that the model meets their requirements and ensure that they agree with the modelling assumptions and understand the associated risks.
- Deliver high quality documentation and presentations to support and maintain model and library use.

Candidate Qualifications & Education

Essential
Post graduate degree in a quantitative discipline preferably Statistics.

Preferred

PhD in a quantitative discipline, such as Statistics, Physics or Engineering.

**Candidate Experience**

**Essential**

- Industry experience in quantitative finance. This may be replaced by relevant academic or industrial experience in statistics.
- Able to deliver to tight deadlines on quantitative projects.
- Python (preferred), R or C++ development experience.

**Preferred**

- Experience in designing and developing statistical and econometric models.
- Experience in analysing large volumes of data including cleaning and subsequent pattern identification and clustering.
- Non-parametric statistics and Bayesian analysis.

**Candidate Skills and Knowledge**

- Good understanding of statistical and econometric modelling techniques – e.g. time series analysis, generalised linear models, regression models and various estimation techniques.
- Strong problem solving skills coupled with an ability to understand and assess how model development is driven by its intended use and business requirements.
- Strong programming skills – able to write code to efficiently manipulate large volumes of data, implement statistical models and contribute to the existing quant library.
- Able to work independently and demonstrate a high degree of initiative to carry out the necessary research to determine the most appropriate modelling technique and apply it to the problem at hand.
- Good communication skills – able to explain complex quantitative concepts to a non-technical audience and able to communicate effectively with senior colleagues and stakeholders.
- Able to clearly document models and explain concepts in clear, jargon free, and well written English.

https://www.statsjobs.com/jobs/barclays-london-30-quantitative-analyst/