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# Example of Quantitative Associate Job Description

Our company is growing rapidly and is looking for a quantitative associate. Thank you in advance for taking a look at the list of responsibilities and qualifications. We look forward to reviewing your resume.

## Responsibilities for quantitative associate

* Provide general day-to-day quantitative support to the trading desk
* Assist with the pricing of new products and feasibility of modelling approaches
* Co-ordinate with GMO and GRM as part of the process of submitting front office developed models for vetting and use in the bank’s risk framework
* Provide technical expertise on capital, margin, and other matters relating to quantitative risk management and collateral disputes
* Perform validation on conceptual model assessment and implementation, input data validation, back testing and benchmark testing
* Identify model limitations and evaluate the materiality
* Assist the team in providing guidance to Members regarding improvements in model design, implementation, output reporting, documentation and governance
* Evaluate model changes upon notification by Member firms, perform testing on the changes, update the documentation and reconfirm model approval
* Assist in the ongoing monitoring of Members' use of approved capital and margin models
* Generating data extracts for use in statistical analysis

## Qualifications for quantitative associate

* High degree of initiative and ability to drive results
* Experience with insurance products preferred
* Advanced understanding of market, credit and liquidity risk
* Experience in pricing complex derivatives and performing advanced statistical analysis on underlying risk factors (returns’ distribution, volatility, correlations)
* Preference will be given to candidate with experience in developing risk models like Historical VaR, Monte Carlo VaR, Multi-Factor Risk Models, Stressed VaR, Liquidity Risk models
* The candidate should also be well trained in probability theory, stochastic processes, and have experience providing theoretical justifications of Risk Models they have developed