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# Example of Quantitative Researcher Job Description

Our company is growing rapidly and is looking for a quantitative researcher. Please review the list of responsibilities and qualifications. While this is our ideal list, we will consider candidates that do not necessarily have all of the qualifications, but have sufficient experience and talent.

## Responsibilities for quantitative researcher

* Apply machine learning to a vast array of datasets
* Create and test complex investment ideas and partner with our engineers to test your hypotheses
* Join our reading circles to stay up to date on the latest research papers in your field
* Working closely with the Portfolio Managers to both enhance existing models and develop new systematic strategies
* Conduct quantitative alpha research, focusing on, but not limited to, both street-wide and proprietary fundamental data sets
* Responsible for data processing/cleaning, alpha idea generation, backtesting and implementation
* Interact with fundamental equity researchers and portfolio managers for investment thesis and alpha research leads
* Participation in maintenance and improvement of the research, production and trading environment
* Backtest and implement algorithms for optimal portfolio construction across options and products
* Perform risk modeling (including option Greeks)

## Qualifications for quantitative researcher

* MA/MS in Computer Science, Information Science, HCI, Psychology, Social Science or a related field preferred
* Consumer intuition &
* 1-3 years experience in a data-intensive role, including communications, public policy, business, technology or finance
* Demonstrated ability to use Structure Query Languages (SQL)
* Ability to work with international teams and quickly develop an understanding for cultural differences
* At least 6+yrs of hands-on experience in a research agency or department