Job Description: Quantitative Researcher

About Us

Paperclip Partners is a venture capital and advisory firm working with early-stage crypto companies and projects, with a particular focus in the realm of decentralized finance. Our main objectives are to provide substantial value to our portfolio companies in the form of technical and strategic advice. Paperclip's founders are early adopters of blockchain technologies and decentralized finance who have extensive backgrounds in finance, engineering, and natural sciences, and are based in Hong Kong and Australia.

About The Role

We are looking for a quantitative researcher to join our company on a full-time or part-time basis, to assist with mathematical research, financial engineering, as well as modelling and simulation. The role involves the development and application of mathematical/economic theory to crypto-based financial products that were previously unfeasible but made possible through blockchain technology. Additionally, the researcher would also help simulate and optimize the performance and risk characteristics of these new financial platforms and products through quantitative means.

Responsibilities

- Develop and apply mathematical/economic theory to decentralized financial protocols
- Build simulations and models to optimize platform performance and risk

Requirements

- Undertaking studies within any of the following disciplines: mathematics, physics, quantitative finance, engineering, economics, actuarial studies, computer science
- Extensive experience with simulation and modeling
- Strong understanding and interest in mathematics
- Python proficiency is strongly preferred
- Minimum of 20 hours availability per week

Nice-to-Haves

- University degree in any of the following: mathematics, physics, quantitative finance, engineering, economics, actuarial studies, computer science
- Knowledge of and interest in blockchain technology and cryptoassets, especially decentralized finance
- Experience in any of the following: cryptocurrency industry, academia, financial institutions, quantitative research
- Experience with agent-based simulation
- Knowledge of any of, and ideally multiple of, the following: statistics, economics, machine learning, finance, mathematics