IDP: Quantitative Private Equity

Modeling Capital Flows Across the Private Equity Value Chain

equation is a data centric, technology-driven investment and analytics firm. We are building a comprehensive data and intelligence platform to enable superior investment decisions and greater confidence allocating capital in venture capital and private equity. We employ rigorous data collection and software-enabled analysis to uncover actionable insights. By developing tools that optimize investor workflows, we help our investment team to back leading venture capital and private equity funds. Financial institutions and family offices trust our platform in delivering actionable insights for private market investing.

Your Project

The flow of capital in private equity - from portfolio companies to GPs to LPs - remains one of the least transparent areas of the investment process.
This project aims to shed light on that black box by building a robust modeling engine that maps and transforms gross cash flows at the portfolio level into net outcomes at the LP level.

Your Tasks

- Codify fund economics - including carry structures, fees, and waterfall mechanisms - into scalable algorithms that reconstruct the full chain of value transfer.
- Build a model that acts as a foundational tool for understanding how operational performance at the deal level translates into investor returns.
- Enable comparative analysis of fund strategies and structures by standardizing their impact on LP-level outcomes.

Your Benefits

- A welcoming atmosphere in a central office in Schwabing within a motivated and international team
- An open, supportive company culture that values diverse experiences to tackle challenging projects at the intersection of research, data science/engineering, and the investment world2
- The chance to shape your project end-to-end - from requirement analysis to the final presentation
- The possibility to join the team as a working student (f/m/d) or full-time employee (f/m/d) after the IDP

Your Profile

- You are a Master's student in Informatics, Mathematics, Physics (or a similar field)
- You have strong analytical skills and write well-structured, carefully-tested code - preferably in Python
- You are goal-oriented, quick to learn, and enjoy creative, collaborative problem-solving
- You thrive in a team, bring initiative, and enjoy taking ownership while learning together

If you're excited by the opportunity, we'd love to hear from you. Please send us your CV and Transcript of Records to joinus@equationcap.com. Applications are possible as a team or as individuals. We are looking forward to hearing from you!