

The Firm

GSA is an award-winning quantitative investment manager, focussed on systematic trading across liquid equity, futures and foreign exchange markets globally.

GSA Capital was formed in 2001 as the Global Statistical Arbitrage group of DB Advisors, a proprietary trading unit of Deutsche Bank. The team spun out in 2005 to create an independent hedge fund management company.

Today GSA manages a number of absolute return, alternative investment funds, aiming to deliver superior risk-adjusted performance by systematically exploiting a range of market inefficiencies using quantitative techniques and innovative technologies.

Our Culture

We reward people based on merit and excellence, not necessarily on experience. We avoid the bureaucracy of larger organisations, and keep our management structures flat. Decisions are made efficiently; changes are implemented quickly.

People who work here enjoy a culture of trust, innovation and scientific rigour. We have some really creative, super-smart people here; all of whom would be embarrassed to be described that way.

It's a friendly, open place where people are motivated because they enjoy what they're doing.

The Role

Quantitative Researcher

At GSA trading and research are synonymous, trading decisions are automated, individual trades are generated and executed systematically by computerized algorithms conceived, carefully developed and rigorously tested by our research teams. Researchers hold ultimate responsibility for the performance of trading strategies. Researchers also develop and maintain a suite of proprietary tools required in the development, testing, deployment, performance monitoring and maintenance of trading algorithms.

Working as part of an established team the successful candidate will contribute toward the research, implementation and continued development of new and existing data driven statistical trading strategies. The work requires creativity, rigorous investigative skills, willingness to take on responsibility and ability to think independently when required. Day to day tasks vary between mundane yet crucially important preparation of messy data through to the study, evaluation and application of advanced statistical methods to such data in order to test prior assumptions, gain new insights and present conclusions effectively and concisely within the team.

Candidate Attributes

- Outstanding aptitude for quantitative problem solving supported by strong foundations in general mathematics. Additional depth in fields of applied mathematics, in particular statistical techniques for evaluation of time series / econometric data.
- Enthusiasm for self-study evidenced by good academic or applied knowledge of contemporary literature in their current field of expertise and beyond (for example, finance).
- A proven track record of professional delivery e.g. work completed as part of a post-doctoral commission, employment within a research centre / industrial laboratory or previous industry experience, possibly in finance.

- Excellent academic background, ideally to master's level or above. Outstanding performance in undergraduate or postgraduate studies (Mathematics, Physics, Computer Science or related discipline) from a leading university.
- Enthusiasm for applied / commercial problem solving in areas beyond your field of academic study – possibly as part of hobbies and interests.
- Hardworking, ambitious, inquisitive, creative, commercial, pragmatic, detail oriented, high integrity, reliable. Able to participate in teamwork but also work effectively when self-directed.
- Willing to invest time to improve programming skills as required.
- Financial knowledge is desirable but not essential: As a minimum candidates should have a sincere curiosity with the field and demonstrated evidence of proactive and non-superficial efforts to further explore the domain. Candidates may hold some formal training in the basics (e.g. finance / economics masters degree or CFA) and thus have been provided a broad understanding in various topics such as accounting, modern portfolio theory, econometric / financial time series analysis, macroeconomics however this should not be a substitute for strong foundations in general problem solving and the application of scientific methods.

Technical Skills

- Good understanding of general programming concepts, diligent when writing code.
- Extensive programming using one or more statistical or econometric packages (e.g. R, S+, Eviews, Gauss etc), experience of Matlab highly advantageous.
- Some OO programming (preferably Java) strongly desirable.
- Experience using relational or vector databases in the context of storing, accessing and manipulating time series data.