

## **FULL-TIME HEAD OF ALGORITHMIC TRADE EXECUTION DEVELOPER (SPAIN) JOB DESCRIPTION**

Causality Group, is an investment manager with operations in Europe and the United States, investing in its hedge fund and proprietary vehicles. We develop quantitative market-neutral long-short portfolios based on a combination of machine learning and factor modeling and trade those portfolios through our fully automated electronic trade execution system.

The firm seeks a motivated growth-oriented individual to lead the development and implementation of front office electronic trade execution strategic projects at its Madrid office. The role is critical as the candidate will be responsible for ensuring the effective functioning and optimization of the firm's execution infrastructure. Therefore, relevant prior experience is expected from the senior candidate.

The ideal candidate holds a relevant college degree (master's preferred) in computer science, physics, mathematics, quantitative finance or economics, or a closely related field. Prior experience in algorithmic trading and/or finance is expected. The candidate will coordinate a team of developers and work closely with execution traders, quantitative analysts, and portfolio managers. Ph.D. degree is not a requirement, but it is a plus.

High-level objectives:

1. Oversight of the firm's execution department, from development to trade execution, ensuring that execution operations are efficiently run.
2. Leading a team of developers and trade desk execution personnel to optimize the development of new trading features, whilst ensuring the stability of the live trading operations.
3. Implementation and connectivity (FIX, internet, reporting, etc.) of third-party systems into the firm's execution infrastructure.

Key responsibilities, some of which you will learn on the job:

1. Responsible for designing, implementing, and optimizing execution strategies.
2. Oversight over automated live trading and execution-related reporting.
3. Accountability over the execution of manual trade interventions, in case our research indicates significant benefits.
4. Definition of the risk management metrics, and responsible for ensuring that these are properly implemented over a number of trading accounts.
5. Integration, implementation, and testing of new broker, OMS or third-party connections to optimize the trading execution across accounts.
6. Definition, optimization, and automation of reporting and reconciliation tools.
7. Optimizing the company's reports using spreadsheet applications and log files.

Required skills and characteristics of the candidate are:

1. Skilled developer in several programming languages, C# preferable, but knowledge of other relevant programming languages, such as C++ and Java are also acceptable.
2. Self-motivated and resourceful; with the ability to manage a team of skilled programmers and traders to solve complex problems and propose innovative solutions
3. Analytical and numerical skills are required to ensure that key decisions and implementations are supported by thorough data analysis.
4. Wholistic view of the impact that any execution implementation will have on the rest of the company's systems and/or processes.
5. Quick grasp of new technologies like the Linux platform and trading software. Familiar with either the Windows or Linux operating systems and spreadsheet applications.
6. Proactiveness to upgrade and optimize the firm's electronic trade execution systems.
7. Strong attention to detail.

The position is full-time and it is based in the Madrid office, developing into a hybrid remote position after the initial training period. Salary depends on experience, and remuneration includes a discretionary end-of-year bonus and exposure to fund returns.

Interested persons are urged to send resumes to [hr@causalitygroup.com](mailto:hr@causalitygroup.com), including the job description for which they are applying in the subject of the email.