

## **FULL-TIME 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 develop and implement front office trade execution strategic projects at its Madrid office. The role is key to the effective functioning and improvement of our execution infrastructure and hence requires mid-level seniority, with at least 2 years of previous development experience.

The ideal candidate holds an undergraduate and/or master's degree in computer science, mathematics, physics, or a closely related field. A Ph.D. degree or prior experience in algorithmic trading is not required but it is considered an advantage for the role. The candidate will work with execution traders, quantitative analysts, and portfolio managers.

High-level objectives:

1. Developing thoroughly tested code and processes that optimize the management and monitoring of daily trading and execution-related activity.
2. Designing new features and tools according to specific requirements, prioritizing according to the need, benefit, and time to delivery
3. Implementation, validation, and testing of third-party protocols and connections with the firm's execution infrastructure.

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

1. Support in designing, implementing, and optimizing execution strategies.
2. Capability to monitor automated live trading and execution-related reporting.
3. Manual trade interventions, in case our research, and head of trading indicate it.
4. Monitoring risk management metrics, 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. Capable of fully testing your code contributions before releasing them to our live environment. Design and implement tools to automate testing

Required skills and characteristics of the candidate are:

1. Prior programming experience, C# preferable, but knowledge of other relevant programming languages, such as C++ and Java are also acceptable.
2. Familiarity with bash and/or Python scripts is required.
3. Self-motivated and resourceful; with the ability to contribute to troubleshooting and problem-solving.
4. Analytical and numerical capabilities for analyzing and reacting to events in our log files.
5. Quick grasp of new technologies
6. Thorough familiarity with either the Windows or Linux operating systems and spreadsheet applications.
7. Enthusiasm and focus on learning to manage electronic trade execution systems.
8. 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 [hiring@causalitygroup.com](mailto: hiring@causalitygroup.com), including the job description for which they are applying in the subject of the email.