

# C++ Developer — *London, UK*

## **Company Background**

Founded by Peter Muller in 1993 and long considered one of the elite quantitative trading outfits in the world, PDT develops real-world trading strategies which earn profits that consistently surpass market returns based on the belief that rigorous scientific investigation can unveil inefficiencies in financial markets. By combining creativity, mathematical finesse, technical sophistication and teamwork, PDT has established a 19 year track record that reflects a highly-valuable, robust and healthy business. Since most trading is automated, PDT is able to focus on new development and long-term projects. As a result, PDT offices resemble an academic setting much more than a Wall Street trading floor.

PDT's work environment is the ideal mix of intellectual collegiality and real-world intensity, where great ideas and improvements are recognized and implemented on their merits. Newcomers work directly with more experienced colleagues in an atmosphere of mentorship and mutual respect. Diversity of background, experience, and interests defines the group's vitality. PDT members often plan events that take advantage of the numerous cultural and culinary offerings found in and around our global office locations. PDT's uncommon culture is renowned on Wall Street. Intellectually-challenging, collaborative, friendly and meritocratic, we attract and retain extraordinarily talented individuals, many of whom have become great friends over the years. As part of our focus on growth and investment in the group's future, we remain committed to the infusion of new talent into PDT.

## **Position Description**

We are seeking highly-technical, hands-on systems developers to join the London technology team of Process Driven Trading (PDT), a global, dynamic, and collegial proprietary quantitative trading group that formed within Morgan Stanley. This role entails being a member of a small global group of highly-skilled and experienced systems and applications developers, and working closely with systems administrators and engineers, the trade execution team, as well as our quantitative researchers. The position is primarily focused on the development and management of real-time trading systems and offers tremendous exposure to sophisticated methods of financial research and trading. Successful candidates come from very strong technical and academic backgrounds, are interested in solving complex technical issues, and wish to be hands-on and deeply involved in programming.

## **Responsibilities:**

- Developing and enhancing PDT's global trading systems to handle order management
- Routing algorithms, exchange/market data connectivity and compliance requirements
- Using technologies such as C++, Boost
- Threading and lock free algorithms
- Profilers and assembly on Windows and Unix platforms
- Maintaining and improving our internal components libraries and development infrastructure, including the build environment, compilers, debuggers, profilers and other development tools.

## **Skills Required**

- Exceptionally strong systems programming skills, with experience in C++, C, Perl and Unix
- Software engineering and design experience
- Keen trouble-shooting and problem-solving skills
- Strong organizational skills and priority management for short, medium and long-term projects
- Self-driven and highly-motivated with ability to think on feet
- Well-developed sense of urgency coupled with flawless execution skills
- Ability to think creatively and implement effective solutions
- Communicates clearly and succinctly both verbally and in writing.

## **Skills Desired**

Bachelor's degree in Computer Science/Computer Engineering preferred. Knowledge of/or exposure to finance industry helpful but not required.