

Junior Software Engineer

THE COMPANY

3Brain is a young, fast-growing, dynamic company focusing on brain technologies, one of the most fascinating research and business sectors with multiple applications and impacts on human life. 3Brain's mission is to provide state of the art technology to support life science research and improve human health. In particular 3Brain develops, manufactures and distributes high-quality instruments based on our patented CMOS multi-electrode array, a high-resolution neuro-electronic chip. The company is headquartered in Switzerland nearby Zurich, has a SW R&D office in Italy, and has installed its products in laboratories and pharma companies worldwide also thanks to its network of distributors covering among others US, Canada, China and Japan.

More info: <http://www.3brain.com/about.html>

JOB DESCRIPTION

3Brain is looking for a full-time software engineer (Windows desktop applications) to design and develop software tools for neurophysiology signals. Working on a consolidated software suite developed by the 3Brain's software team, the candidate will implement additional functionalities to handle, process and store high-speed neurophysiological data streams. Main responsibilities:

- Develop high-speed real-time data processing and data compression strategies to manage data streams in the order of 3GB/s
- Design and develop GUI for real-time data visualization
- Software maintenance, bug fixing and customer support on software
- Learn about user goals and adapt the software accordingly

REQUIRED QUALIFICATIONS

- 2+ years of experience in software development in Visual Studio IDE and WinForms
- Strong programming skills in C# and C++, experience with multi-threading
- Bachelor's in Computer Science, Software Engineering or related fields
- Knowledge in statistical analysis, signal and data processing
- Good English language skills
- Team working experience

ADDITIONAL QUALIFICATIONS

- Experience with AVX instructions and Intel IPP
- Experience with a machine learning framework
- Knowledge in Python and/or Matlab
- Windows Presentation Foundation (WPF) programming experience

WHAT WE OFFER

- A dynamic and stimulating work environment in a young, emerging company
- Possibility of professional growth and salary commensurate with experience
- Flexible work hours
- Working place: Genova (Italy) a wonderful Mediterranean and historical city located nearby world-renowned places such as Portofino and Cinque Terre and 2 hours from Milan, the fashion and business hub of Italy