

Electronics Engineer

JOB OFFER

The Company

3Brain is a young, fast-growing, dynamic company focused 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 an 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

For the next expansion step, 3Brain is looking for a full-time electronics engineer to reinforce our R&D team. You will help develop embedded systems for high-speed data acquisition devices including system engineering, schematics design and layout, testing and verification. You will also contribute to the current device production line, including tasks such as automation, production testing and optimization.

In particular, your tasks involve:

- Creating high-speed embedded systems and architectures for products based on high-resolution microelectrode arrays
- Design and implement hardware systems and sub-systems (PCBs), including high-speed ADCs, microcontrollers and FPGA-SoMs, power supplies, etc.
- Software programming of FPGA-based hardware accelerators (in C/C++)
- Design firmware to operate and control peripherals and sub-systems with Microcontrollers
- Testing, measuring, characterization and validation of electronic systems
- Design and development of production-test-tools
- Expert support of the electronics production team



Required Qualifications

- BSc/MSc in Electrical Engineering
- Minimum of 2 years of professional experience
- Analog electronics (Simulation, Schematics, Layout)
- High-speed digital design (Schematics, Layout)
- Good practical and industrial experience
- Prototyping and testing
- Good background in signal processing
- Fluency in English
- Initiative, independent and ability to communicate and work effectively with other team members in a multicultural and international environment

Optional Qualifications

- Microprocessor programming

What We Offer

- A dynamic and stimulating work environment in a young, emerging company focusing on one of the most fascinating research fields, brain technologies
- Never-ending technical challenges
- Possibility of professional growth, both technical and economical
- Flexible work hours
- Place of work: Wädenswil, Switzerland

To apply send your CV and short motivation letter to info@3brain.com, subject: [Electronics Engineer](#)

