Senior Electronics Engineer
Job Offer

The Company

3Brain AG is a Swiss deep tech company working on cell-electronic interfaces that link biological networks to computers via custom-made semiconductor microchips. Our mission is to empower life scientists to probe intelligent networks, accelerate biomedical discoveries for the benefit of patients, and create a future more exciting than the present. Our interdisciplinary team of scientists and engineers are constantly pushing the boundaries of engineering for life's complexities. We are ambitious, fast-growing and love to explore. The company is headquartered in Switzerland nearby Zurich, has an R&D office in Genova, Italy, and has installed its cutting-edge products in laboratories and pharma companies worldwide.

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

Job description

For the next expansion step, 3Brain is looking for a full-time Hardware 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.
- Testing, measuring, characterization and validation of electronic systems
- Design and development of production-test-tools
- Expert support of the electronics production team
- Programming of microprocessor-based test equipment, including various sensors and actuators

Required Qualifications

- Independence and ability to communicate and work effectively with other team members in a multicultural and international environment
- BSc/MSc in Electrical Engineering
- Minimum of 7 years of professional experience in HW Design
- Design of analog electronics and high-speed digital systems (Simulation, Schematics, Layout)
- Good understanding of EMC compliance and mechanical integration
- Practical and industrial hands-on experience
- Prototyping and testing (i.e. for bring-up, debugging and production)
- Background in basic signal processing
- Fluency in English

Additional Qualifications

- Knowledge of Python
- Microprocessor programming

What We Offer

- A dynamic and stimulating work environment driven by a desire to build transformational technologies to help others.
- A young, fast-growing company with plenty of opportunities for personal growth and development.
- Great challenges and adventures in both technical and economical fields.
- Working place: **Pfäffikon SZ, Switzerland**. It is a beautiful lakeside village just outside of Zurich, the country's main cultural, financial and business center.

To apply send your CV and short motivation letter to **hr@3brain.com**, subject: Senior Electronics Engineer.