

Electronics Test Engineer

Job Offer

The Company

3Brain 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's cutting-edge products are used in laboratories and pharma companies worldwide. 3Brain is headquartered in Switzerland nearby Zurich, has a Data Science and Discovery Unit in Genova, Italy, and an operational unit in the US.

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

Job description

3Brain is looking for a full-time electronics engineer to reinforce our test team. You will help develop test systems for high-speed data acquisition devices including test system engineering, schematics design and layout. Focus will be on bring-up and debugging of new developments as well as life-cycle management of existing products (i.e. automation, optimization).

Main responsibilities:

- Testing and characterizing high-resolution CMOS-based ASICs (application-specific integrated circuits), high-speed embedded systems and architectures for products based on high-resolution microelectrode arrays.
- Design (schematics, layout) and implementation of test tools for ASICs and various electronics (sub-)systems to further improve the quality of 3Brain's products.
- Design and implementation of test systems, both for R&D and production characterization (quality control) in collaboration with production team.
- Microcontroller programming to operate and control peripherals and sub-systems with Microcontrollers, and to create "intelligent" test systems.



- Stress-test electronics and mechanical systems for functionality, robustness, reliability and quality.
- Participate in product development by emphasizing testability, features and functions.
- Supporting product-life cycle management (i.e. new revisions, new releases, etc.).
- Expert support of the electronics R&D and production team.

Required Qualifications

- BSc/MSc in Electrical Engineering.
- 2+ years of professional experience.
- Perseverance and tenacity to investigate electrical and mechanical systems.
- Knowledge of analog electronics (Simulation, Schematics, Layout).
- Understanding of high-speed digital design (Schematics, Layout).
- Microcontroller programming.
- Good practical and industrial experience, combined with practical/manual skills.
- Prototyping and testing.
- Initiative, independent and ability to communicate and work effectively with other team members in a multicultural and international environment.
- Fluency in English

Additional Qualifications

- C/C++ and Python
- Mechanical CAD tool

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.
- 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: [Electronics Test Engineer](#).

