

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. 3Brain develops, manufactures and distributes high-quality instruments based on our patented CMOS multi-electrode array, a high-resolution neuroelectronic 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.

3Brain is currently developing, together with CSEM, new versions of its innovative 3D sensing chip and is looking to reinforce his team in this field with a full-time

## MEMS Process Engineer

who will be integrated in the microfabrication team of CSEM SA to further develop and industrialize this new technological platform. The working place will therefore be Neuchâtel in the CSEM premises.

CSEM is a private research, technology and innovation center specializing in microtechnology, microelectronics, system engineering and renewable energy systems. It offers its customers and industry partners custom-made innovative solutions.

### Your mission

As a technology all-rounder, you will be responsible for the development and industrialization of a complex process to realize 3D electrode arrays on CMOS wafers.

- Be the driving force for the development and optimization of the process steps required to manufacture 3D electrode arrays on CMOS substrates, like for example, thin film metallization, photolithography, UV LIGA, dry etching, wet etching, electroplating, ...
- Process optimization using systematic approaches (DOE).
- Plan and execute ramp-up activities towards production including characterization, data analysis and yield improvement activities.
- Creation of the process documentation according to our quality standards.
- Follow the state-of the art and development trends in the field of interest.

### Your profile

You are a passionate engineer with Ms or PhD degree in Micro-technology or equivalent and have several years hands-on experience in MEMS process development. Experience in the industry is a strong asset. You are flexible and can adapt to new themes and technologies. As a customer oriented person you are motivated to interact with colleagues, sub-contractors, as well as other partners. Furthermore, you are curious, motivated, proactive, a good team-player and you think creatively. You are fluent in English, French would be an asset.

### We offer

3Brain offers a stimulating and multidisciplinary work environment in a young, fast growing ambitious company. You will be a key person for the development of our new product lines with good possibilities of professional growth. We offer a motivating and interesting reward scheme.

The working place will be Neuchâtel. You will be integrated in the Microsystems Technology Group with access to a state-of-the art Microfabrication cleanroom.

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