



Microfabrication Engineer

This is a full time, permanent position (CDI) in Paris, France.

Who we are

Axorus wants to become the “Intel of Bionics”: provide a wide range of technologies for implants to treat neural diseases. Our first product will be a retina implant.

We work at the crossroads of electronics and neurobiology, with the goal of helping people live in better health. We have partnerships with medical doctors, biologists, and electronics scientists.

We are a startup and expect to grow significantly in the upcoming years. As an early employee, you will find yourself in a dynamic and fast-paced environment where you have a strong voice, and will get to tackle challenging and meaningful projects.

We offer a competitive salary and benefits.

What you will do

You will post-process silicon dies into biocompatible retinal implants.

The main building block of this implant is an electronic “neuron”: a CMOS analog circuit that mimics the action potentials (spikes) of a biological neuron. To obtain a functional retina prototype, we design chips that are first manufactured in a foundry, then post-processed in a clean room environment.

- You will develop robust and manufacturing compatible processes. The processes will initially be mainly die-wafer bonding, dicing, thin film deposition, 3D micro-electrode fabrication and reactive ion etching.
- You will design the protocols, test & troubleshoot them
- You will interact with the rest of the prototype design team, in order to ensure compatibility between post-processing and the previous steps.

The prototype will then be tested on biological models and, later, during clinical trials. For human testing, the artificial retina will have to meet medical implant standards.

Who you are

- ✓ You have an MSc or an Engineering degree and at minimum 2 years of relevant experience in microfabrication, preferably in electro-stimulation, or the semiconductor or medical devices industries. Experienced technicians/BSc may also apply.
- ✓ Knowledge of atomic layer deposition (ALD), chemical vapor deposition (CVD), reactive ion etching (RIE), and die-to-wafer bonding techniques is highly desirable.
- + Ability to model multi-physics devices using simulation tools is a plus.

Soft skills

- ✓ You are curious, resourceful and result-driven.
- ✓ You are excited to work with and learn from electrical, biology and materials engineers.

If you are interested, send us your CV at jobs@axorus.com