

Microfabrication Engineer – Neural Dynamics Technologies LLC

Cambridge, MA

Title: Microfabrication Engineer

Location: Cambridge, MA

FT/PT: Full Time

Description:

Neural Dynamics Technologies (NDT) is an SBIR funded startup company commercializing microfabricated probes for recording neural activity, developed at MIT over the past 8 years. Our company is creating new technologies to acquire extracellular neural recordings in the brain, for basic science as well as therapeutic applications. We are looking for a microfabrication engineer to join the team to carry out microfabrication and prototype device packaging. The engineer will be also responsible for innovating process technologies, creating new device designs, determining cost-efficient methods for fabricating, and assembling and packaging these devices for use by collaborating neuroscience labs and other customers. This work will primarily take place in academic cleanrooms at MIT and Harvard.

Skills:

Strong knowledge of microfabrication, processing methods, semiconductor packaging, and lithography are essential. Matlab, basic programming, and layout design experience and ability to understand CAD drawings is desired, as well as an understanding of basic electrical testing and measurement for failure analysis. Understanding of plasma deposition and etch, direct write and electron beam lithography, manual spin-coating, wet chemical processing, SEM, thin-film, and other characterization methods, and wirebonding would be preferred.

Requirements:

Practical experience in microfabrication in an academic or industry cleanroom. Either a Ph.D. degree in Electrical Engineering, Mechanical Engineering, Material Science, or related fields, with at least 3-5 years of microfabrication experience; or a BS or MS in relevant fields with strong hands-on and practical experience in the cleanroom. Ability to work in a cleanroom environment most of the day. Good intuition and common sense about microfabrication is critical for success. Attention to detail, superb organizational, documentation, communication, and time management skills required. We are seeking an independent and self-motivated individual who is able to work in a fast-paced startup environment. Interpersonal skills, analytical/problem solving/critical thinking skills and good judgment are essential.

A background in neuroengineering or neuroscience is not required.

Must be authorized to work in the US without restrictions (US citizen or permanent resident), since NDT will not sponsor work visas.

Interested individuals should contact careers@neuraldynamicstechnologies.com.