
Product Development Engineer
Permanent, Fulltime position, Ann Arbor, MI

Company Description

NeuroNexus is a fast-growing neurotechnology company that develops and commercializes high-value neural interface technologies, instrumentation systems, and analytics and visualization software for neuroscience and clinical applications. NeuroNexus is known for innovative, professional-grade devices, systems, and tools to empower discovery in the life sciences. NeuroNexus' platform technologies have spawned numerous innovative products to enable leading-edge research in thousands of labs all around the world. Our products include a broad range of thin-film neural probes and electrode arrays, instrumentation systems for electrophysiological recording and stimulation, and data analytics and visualization software. Our products are used across a wide variety of applications from scientific investigations of neural circuits of insects to developing powerful, next-generation diagnostics and functional therapies for significant indications in neurology and cardiology.

Summary/Scope of Position

With the fast-expanding field of neuroscience and neural engineering, there is a need for constant development in neurotechnology and tools that support neuroscience research. This position will involve being part of a team that researches the current needs of neuroscience research, designing/developing the technology and products that answer those needs, and supporting researchers who use these tools. Additionally, this position will support the manufacturing operation, thus requiring a close relationship with manufacturing to develop strategies and solutions to production-related issues. The candidate must have a strong understanding of processes related to design and prototyping, V&V testing, transfer of designs to manufacturing, and project management. In addition, experience and understanding of 3D Printing and Design-For-Additive-Manufacturing is essential.

Minimum Qualifications for the job include:

- Bachelor's or Master's degree in Mechanical Engineering, Biomedical Engineering, or equivalent
- Minimum 1-3 years of full-time product design and development experience
- Proficiency with SolidWorks, especially for technical drawing creation
- Technical writing experience (reports, protocols, work instructions)
- Experience with SLA and FDM 3D-printed parts, as well as printer operation and upkeep
- Strong teamwork, initiative, and communication skills
- Self-driven with a strong desire to make an impact

Preferred Qualifications:

- Strong foundation in engineering fundamentals such as statics, dynamics, material mechanics
- Strong hands-on mechanical skillset and understanding of prototyping and assembly techniques:
 - Broad knowledge of mfg techniques, such as machining, WEDM, laser cutting, etc.
 - Hands-on experience with electronics assembly techniques, such as reflow soldering
 - Hands-on experience with microassembly and working with microscopes
- Sound design insight, technical judgement, and problem-solving skills in mechanical systems
- Familiarity working within a QMS (e.g. ISO 13485 or ISO 9001) is a plus

Desired Attributes

- Innovative, detail oriented & able to deliver solutions
- Ability to work in a multi-disciplinary team including engineers and neuroscientists
- Good writing and verbal communication skills
- Resourceful, flexible and adaptable

NeuroNexus offers a fast-paced, interesting and fun work environment that encourages employees to be both productive and innovative. Employees work both independently and as part of a multi-disciplinary team, all focused on developing innovative technologies for interfacing with the brain.