

# Thin-Films Engineer

## Job description

Paradromics is looking for a Thin-Films Engineer to contribute to the hardware development of key components of our neural implant system. This includes the design and manufacturing of biostable ceramic coatings for long term neural implantation. Experience with development, characterization and patterning of multiple thin film deposition techniques including PVD and CVD is required. Close coordination with other engineers in the team will be essential, therefore excellent communication and interpersonal skills are crucial for excelling at this role. If you like big challenges, working at the frontier of human technology, and have worked on and shipped high-performance hardware in the past, we would like to hear from you.

## Required Skills & Experience

- In-depth understanding of chemical vapor deposition techniques such as atomic layer deposition and plasma-enhanced CVD
- In-depth understanding of and experience with physical vapor deposition techniques such as sputtering, evaporation, or pulsed laser deposition
- Experience with elemental characterization such as EDS, XRD, Auger spectroscopy, ERDA
- Experience with physical characterization techniques such as SEM, profilometry, FIB, ellipsometry
- Experience with functional characterization techniques such as accelerated aging
- Excellent written and oral communication skills
- Very strong analytical and debugging skills
- Ability to produce well-written technical reports and documentation
- Minimum of Masters degree in Materials science, physics, or a closely related discipline plus 4 years of work experience

## Preferred Skills & Experience

- Experience in laser based thin film machining techniques, such as excimer and femtosecond laser technology
- Experience in plasma based thin film removal techniques, such as RIE
- Experience in wet etch-based thin film removal techniques, such as bath etching or electropolishing
- Experience in polymer film deposition techniques such as CVD, parylene, spray coating, etc
- Experience in medical device industry or other highly regulated environment
- Preferred qualification of PhD in materials science, physics, or a closely related discipline

*Paradromics is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.*

**Qualified candidates should send cover letter and resume to [HR@paradromics.com](mailto:HR@paradromics.com)**