INNOVATIVE MICRO TECHNOLOGY

Job Description Form

Division/Department 02	
Job Title MEMS Design Engineer	
Reports to Chris Gudeman	*Title* CTO

Level/Grade	*Type of position*:	Hours___40.0_____ / week
	☐ Full-time ☐ Part-time	☐ Exempt
	☐ Regular Status ☐ Temporary	☐ Nonexempt
	☐ Contractor ☐ Intern	

GENERAL DESCRIPTION

The MEMS Design Engineer will design new and support the designs of existing MEMS devices. The design activities will be focused on CAD software that includes ANSYS, HFSS, COMSOL, L-Edit, ZEMAX, and Essential Macleod.

DETAILED JOB DUTIES

Create simulations that run efficiently and converge over a wide range of input parameters
Optimize designs based on simulations
Work closely with Process Development Program Managers and Engineers to assure the designs are manufacturable
Translate designs from the simulation software into L-Edit
Present designs to team and management.
Iterate designs to optimize deployment
Troubleshoot existing products

WORK EXPERIENCE REQUIREMENTS/EDUCATION REQUIREMENTS/PHYSICAL REQUIREMENTS

PhD in Chemistry, Physics, Engineering, Biology, or Medicine

Detailed understanding of microelectronic processing and fabrication

Excellent interpersonal skills

Ability to understand and create complex designs, which can consist of >20 mask layer

Ability to work in a cleanroom or office environment for extended periods of time.

Able to understand computing requirements for efficient computation