

Requisition # E1778030

Job Title Thin Film Device Physics Lead (Non-Display Products)

Post Date 3/3/2008

Division QMT

Job Area Engineering - Hardware

Location California - San Jose

Job Description QUALCOMM MEMS Technologies creates iMoD, a next generation, always-on display technology that combines MEMS structures with thin film optics. iMoD will transform the display industry by offering substantial performance and power-saving benefits over current technologies - while enabling new applications and opening lucrative new market opportunities

We're seeking a candidate that will be part of the team responsible for identifying and developing new non-display business opportunities, such as in the area of clean tech, MEMS sensors, Bio-MEMS, etc by leveraging technologies accumulated during development of MEMS displays. The business models include a variety of options such as licensing, JV, spin-off, new startup etc.

This candidate will play a leading role as the key scientist in identifying and developing opportunities outside display much like a founding member of a startup. Specifically, this candidate will be responsible for theoretical modeling (electrical and optical), design, specification, characterization and qualification of thin film opto-electronic devices fabricated using QMT's IMOD and CMOS technology for non display applications. This candidate will also be working with the process team on fabrication of these devices

Skills/Experience *Experience in thin film optical modeling, design and characterization
*Experience in semiconductor device physics (pn/pin junctions, photoelectric effect etc) including analytical modeling of transistors
*Knowledgeable about semiconductor process
*Experience in MEMS device design and process a plus
*Creative thinker

Additional Skills MATLAB programming, Thin film optical modeling, semiconductor device modeling

Education Master's degree in Physics, Material Science or related field of study required

Requirements (PhD preferred) PLUS 2+ years of hands-on professional or post-doc experience.