Posted: <u>May 18, 2023</u>

NEW MEXICO TECH
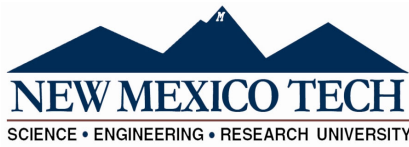SCIENCE • ENGINEERING • RESEARCH UNIVERSITY

POSITION ANNOUNCEMENT

TITLE: <u>PRODUCT DEVELOPMENT ENGINEER</u>   **DEPT:** <u>MECHANICAL ENGINEERING</u>

REG ☑   **TEMP** ☐   **FULL TIME** ☑   **PART TIME** ☐

STARTING RATE or SALARY RANGE <u>$60,000</u>

Employees being promoted to a higher classified position receive the minimum for the position or a pay rate adjustment of 8% whichever is greater.

All regular positions also entitle the employee to several benefits including health, dental, vision, life insurance, and retirement which is largely paid by New Mexico Tech for the employee and dependents.

INTERNAL POSTING THROUGH: <u>Concurrent*</u> CONSIDERATION WILL BE GIVEN FIRST TO TEMPORARY AND REGULAR TECH EMPLOYEES WHO APPLY WITHIN THE 7 DAY INTERNAL POSTING. APPLICATIONS RECEIVED AFTER THE 7 DAY POSTING MARGIN WILL BE CONSIDERED WITH OTHER OUTSIDE APPLICANTS.

JOB SUMMARY:

Develop a multifunctional mechano-luminescence-optoelectronic (MLO) fiber prototype for technology commercialization; of The MLO fiber will be used as a self-powered sensing component for health monitoring wearables.

JOB FUNCTIONS:

Validate the MLO fiber's self-powered strain sensing capability.   100%
Optimize the MLO fiber's performance by Designing microstructures of the functional building blocks. 100%
Defining the dimensions of the fiber.   100%
Characterizing the physical properties of the functional building blocks.   50%
Communicate with partner companies, which are interested in using the MLO fiber as a part of their wearables. 50%

REQUIRED QUALIFICATIONS:

Master's degree in Mechanical, Materials, Chemical, Electrical Engineering or related field. Experience with sensor fabrication using advanced materials. Experience with digital multimeter and source-measurement units.

DESIRED QUALIFICATIONS:

Experience with thin film fabrication and extrusion-based printing. Experience with composites, such as the MLO fiber.

LIFTING REQUIREMENTS:

(f)requently, (o)ccasionally, or (s)eldom

0 - 15 pounds	
15 - 30 pounds	
30 - 50 pounds	F
50 - 100 pounds	
100 + pounds	

PHYSICAL DEMANDS:

Standing	Sitting	Walking	Pulling
Pushing	Lifting	Stooping	Kneeling
Crawling	Climbing	Reaching	Other

Apply to: nmtjobapps@npe.nmt.edu