

**MICHIGAN TECHNOLOGICAL UNIVERSITY
CLASSIFICATION DESCRIPTION**

Job Title: SENIOR RESEARCH SCIENTIST II
(pay grade 270)
Department: MICHIGAN TECH RESEARCH INSTITUTE
(Based in Ann Arbor)
Salary Range: COMMENSURATE WITH EXPERIENCE
Exempt (Y/N): YES
Supervisor: SENIOR RESEARCH SCIENTIST II

POSITION DURATION DEPENDENT UPON EXTERNAL FUNDING
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SUMMARY: Provide technical and business development support related to Michigan Tech Research Institute (MTRI) activities in sensing systems and data exploitation. The position requires a strong background in mathematics, probability and statistics, electromagnetics, and a proven record of program development and capture. Experience in software development is desired as well. The position is based at MTRI in Ann Arbor, MI.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.
Lead the formulation and development of new sensor and exploitation programs.
Participate in research-related activities awarded to MTRI in conjunction with other staff, including formulating and writing proposals, planning and management of research projects, report preparation, and presentation of findings on an as needed basis.
Provide technical assistance to federal, state and local agencies on sensing and processing related issues.
Deliver program-related presentations to program clients and related professional organizations.

SUPERVISORY RESPONSIBILITIES:

Supervision will be exercised over staff and student interns.

QUALIFICATION REQUIREMENTS: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

EDUCATION and/or EXPERIENCE:

REQUIRED:

M.S. degree in a science related field such as Electrical Engineering, Optics, Mathematics, or Statistics and 10 years of related experience.

OR

Ph.D. degree in a science related field such as Electrical Engineering, Optics, Mathematics, or Statistics and 5 years of related experience.

AND

Seven years experience in sensor development and data exploitation.
Demonstrated record in procuring and executing applied research programs.
Experience using personal computers and basic software packages.

DESIRABLE:

Experience directing small technical groups.
Experience in project management.

OTHER SKILLS AND ABILITIES:

REQUIRED:

Demonstrated ability to obtain a DoD security clearance, which requires United States citizenship.
Excellent interpersonal, oral/written, and presentation communication skills.
Excellent customer service and organizational skills.
Demonstrated ability to prepare technical publications and presentations.

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OTHER SKILLS AND ABILITIES (continued):

REQUIRED:

Demonstrated ability and willingness to devote 15 to 25% of time to travel.

Demonstrated ability to speak before large and small groups of people.

Demonstrated ability to work independently and take the initiative to solve problems.

Demonstrated ability to work with accuracy and attention to detail.

Demonstrated ability and willingness to work flexible hours.

Demonstrated ability to communicate effectively across cultural boundaries and work harmoniously with diverse groups of students, faculty and staff.

DESIRABLE:

Demonstrated record of writing successful proposals.