

**MICHIGAN TECHNOLOGICAL UNIVERSITY
CLASSIFICATION DESCRIPTION**

Job Title: SOFTWARE ENGINEER II
Department: LOCAL TECHNICAL ASSISTANCE PROGRAM, MICHIGAN TECH
TRANSPORTATION INSTITUTE
Salary Guideline: MINIMUM \$31,350 – MAXIMUM \$51,000
(IT level 4)
Exempt (Y/N): YES
Supervisor: PROGRAM MANAGER

**POSITION DURATION
DEPENDENT UPON
EXTERNAL FUNDING**

SUMMARY: Design, implement, test, document, and maintain software systems distributed by the Technology Development Group.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.
Research, evaluate, and synthesize technical information to design, write, and test new and existing software programs in a development team environment.
Enhance existing systems by analyzing and identifying areas for modification.
Maintain systems by identifying and correcting software defects.
Collect and document user's requirements and develop logical and physical specifications.
Write operational documentation with technical writers.
Provide direct technical support to customers.
Develop and present user-training seminars.

SUPERVISORY RESPONSIBILITIES:

Functional supervision may be exercised over other developers and student assistants.

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:

Bachelor's degree in computer science or an equivalent combination of education and experience from which comparable knowledge and abilities can be acquired.

Four years experience writing, debugging, and testing software applications.

Database design experience using MS SQL Server or other database systems.

DESIRABLE:

Software development experience using MS Visual Basic.

Software development experience on the MS Windows platform.

OTHER SKILLS AND ABILITIES:

REQUIRED:

Excellent written/oral communication skills.

Demonstrated ability to speak before groups of people.

Demonstrated ability to work in or adapt to a wide variety of programming languages, operating systems, and hardware platforms.

Demonstrated appreciation of user needs and proved ability to work as part of a team.

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

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

DESIRABLE:

Demonstrated knowledge of GIS systems.

Demonstrated knowledge of Transportation Management Systems.