

Systems Engineer

MI Technologies currently has a need for a Systems Engineer to apply a variety of skills and technologies to automated microwave measurement systems using a methodical design process. The technical content of these systems includes microwave instrumentation, antennas, high accuracy motorized positioning systems, RF amplifiers, microwave cables and components, interconnect cables, and software.

The Systems Engineer will initially focus on designing highly reliable interconnect systems for motion control and feedback applications. Designs will include electrical wiring harnesses within mechanical positioning systems, junction boxes, adapter units, and cables between various types of instrumentation in both indoor and outdoor applications. Designs will include slip rings, rotary joints, flexible cabling, and sophisticated cable management systems. Highly repeatable and robust designs are required to minimize measurement errors, provide compatibility between high power motor drives and sensitive feedback devices, and result in many years of reliable operation.

The position will evolve to encompass design of the complete microwave measurement system. This will present a variety of other technical challenges such as RF subsystem design, microwave link budget analysis, system error analysis, system integration, installation, and test. Therefore the ability to learn quickly, pay attention to detail, and work productively to solve a variety of problems are necessary for long-term success in this position.

Strong interpersonal skills are an absolute necessity to work effectively in this role. Frequent interaction with both engineering and manufacturing coworkers is initially required, and future roles will include being a technical representative to our customers.

Experience must include 5 or more years of electrical system design, and educational background must include a Bachelor's or Master's degree in Electrical Engineering. Occasional travel may be required.