Electronics Systems Engineer

Michigan Ion Beam Laboratory
University of Michigan

The University of Michigan has opened a position for a Research Project Engineer in Electronics Systems to design, build, implement, and maintain data acquisition and instrument interface control for particle accelerators and related auxiliary equipment in the Michigan Ion Beam Laboratory. The laboratory is equipped with a 1.7 MV tandem accelerator, a 400 kV ion implanter and a 3 MV tandem that are used for irradiation damage, ion beam surface modification and ion beam analysis experiments.

Essential Job Functions:
- Design, build and implement control systems
- Integrated hardware and software for accelerator system control and monitoring
- Develop and maintain scientific research and teaching instrumentation
- Build scientific equipment
- Provide technical advice
- Troubleshoot and repair electronic components and systems, including:
  - AC/DC power supplies for both low and high voltage
  - Analog/digital electronic controllers and control modules
  - Electronic instrumentation: gauges, thermocouples, infrared cameras, etc.
  - Basic diagnosis of electronics

Candidates should have:
- Computer network and programming skills, and experience with Labview preferred
- Knowledge of interplay/interfacing between computers and electronics
- A minimum of a BS in electrical engineering, systems engineering, computer engineering or other recognized field of science and learning that is directly related to the duties of the position
- One to three years related experience

Additional information about MIBL can be obtained from our website: sitemaker.umich.edu/mibl. Each candidate should submit a curriculum vitae that includes at least three references.

Submit applications to:
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