

**JOB TITLE:**

Laser-Survey Lead

**JOB DESCRIPTION:****General Project Description:**

This job is part of our overall Building Information Modeling (BIM) plan. Our end deliverable is the installation of piping and ductwork. Our process piping needs to be installed within a +/- 1/8" accuracy. The beginning of our process includes surveying in datum points with our Trimble unit and a variety of lasers, operating a 3D laser scanner and registering all of the scans to one another and to the building. These steps are the predecessor for our very detailed 3D modeling processes. Our ability to deliver our piping within required tolerances makes the accuracy of the up front surveying, scanning and registration paramount.

**Primary Roles:**

- Surveying in a baseline x/y grid system from a building monument using our Trimble Model Number SPS610 with a Nomad 800L hand controller, all tied to the site grid system.
- Surveying in and installing Measured Absolute Grid (MAG) datum points into existing buildings.
- Setting temporary paper and spherical targets in preparation of 3D laser scanning. Operating our FARO LS880 high density point cloud laser scanner.
- Registering the output scans to one another and to the building grid using FARO software.
- Coordinate the scheduling of all laser scanning and Trimble equipment.
- Coordinate the needs of the registered scanned images with our 3D modeling department.

**Secondary Roles:**

- Support of CAD department in mechanical shop drawing preparation.
- Verifying calibration of a wide variety of laser devices.

**Required Qualifications:**

Minimum four years surveying experience. Minimum two years AutoCAD experience. 3D laser scanner experience preferred. Trimble surveying equipment experience preferred.

Job Location: Tempe, AZ. 85249

Please send resume, references, and salary requirements to; [ujobs@umec.com](mailto:ujobs@umec.com)

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