



## **North Shore-LIJ Health Systems – New York**

**Architect:** Swanke Hayden Connell

**Client:** North Shore-LIJ

**Completion:** 2015

North Shore-LIJ is working on new imaging sites on Long Island. These sites will provide CT scanning, as well as MRI imaging.

We conducted studies at proposed locations of the imaging centers to evaluate site vibration levels with respect to requirements for scheduled equipment. This included field testing existing structures with vibration measurement equipment and coordinating results with the design team and equipment manufacturer installation guidelines.

Because of proximity to LIRR tracks, our analysis was of particular importance to ensure that vibration generated by train events would pose no issue to the proposed imaging equipment. Our testing resulted in some changes to initial space planning ideas, locating sensitive imaging equipment farther from areas subject to vibration and employing isolation measures where required. Footfall vibration was also assessed at both locations and was deemed an imperceptible factor.

Our recommendations helped North Shore-LIJ in their choice and installation of highly sensitive medical equipment.