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JLL Construction completes \$30 million 80,000 s/f R&D/manufacturing center for Entegris

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JLL Construction has completed construction of a new 80,000 s/f R&D and manufacturing center for Entegris.

The \$30 million i2M Center for Advanced Materials Science is one of New England's leading R&D and manufacturing center's for filtration media, electrostatic clamps (E-Chucks), and proprietary advanced, low-temperature coatings. These technologies are needed to develop critical components used in the world's most demanding and stringent semiconductor manufacturing environments.

The complex 17-month project included business, factory, hazard class 1 and 2, clean rooms, storage and assembly uses. The space houses 100 employees.

The existing structure required extensive reconstruction and reinforcement in order to accommodate Entegris' new mechanical equipment. Complete new mechanical and electrical infrastructure and systems were also required for Entegris' processes. This included: new electrical service, chilled water plant and air handling systems, RODI and acid neutralization systems, vacuum and compressed air, process gas systems, gas detection systems, fire protection with M-2 foam and carbon dioxide systems, and steam and hot water plants. The team utilized 3D BIM modelling to coordinate all systems. JLL Construction also managed the relocation rigging and installation of Entegris' manufacturing equipment.

Joining Peter on the JLL team was construction managers Scott Dean and Bob Kelly, and superintendents Steve Pizzuto and Dan Browne.

The project team also included architect Perkins + Will, MEP engineer Vanderweil, structural engineer Simpson Gumpertz & Heger, and commissioning agent RDK.

"The building renovations were extensive," said JLL managing director Peter Stankiewicz. "One of the keys to achieving occupancy approval was close coordination with the local authorities. A proactive process was followed with regular meetings and walkthroughs."

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