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Product Lifecycle Management (PLM) Center

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The Product Lifecycle Management Center is the hub for digital enterprise (DE) activities in the Purdue Polytechnic Institute and across campus. It serves as a resource for industrial partners including The Boeing Company, Cummins, General Motors, Gulfstream, Rolls Royce, Lockheed Martin, and Textron. It has its physical home in the Indiana Manufacturing Institute in the Purdue Research Park, where it forms a collaboration space for faculty in the Purdue Polytechnic Institute, and Purdue’s Colleges of Engineering, Liberal Arts, and Science, as well as Purdue’s Krannert School of Business. Typical research activities in the lab include model-based definition, model-based enterprise, 3D data interoperability and collaboration, product data management methodologies, and techniques for the extended use of CAD data. The objectives of the Purdue PLM Center are:

- Conducting research that promotes PLM as a methodology and practice
- Establishing industry partnerships that guide, support, and validate PLM research and education activities
- Promoting the evolution and use of model-based digital product data
- Promoting the use and development of tools and practices that emphasize the concept of a “digital twin” for products
- Promoting the author/consumer communication model around the use of digital product data
- Assisting with the integration of PLM into curriculum
- Facilitating the pursuit of PLM career opportunities by Purdue graduates
- Enabling PLM adoption by industry

Equipment and resources include:

- All major PLM toolsets and utilities from commercial PLM software providers
- PLM server capacity for research and education
- 6 Servers
- 12 CPUs
- 52 Physical Cores / 80 Logical Cores
- 200GB Memory
- 13TB Storage Capacity (2 external arrays plus direct attached storage)
- 30 Server Gigabit ports, all gigabit networking for PLM server to clients

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