Applications in manufacturing can face a broad range of challenges, from interfacing with equipment, shop floor control and ERP systems, to analysis of complicated process control and yield management problems, to visualization of the often-complicated relationships between equipment configuration, product inventory level, and customer delivery schedules.

This tutorial provides a brief overview of unique manufacturing environment challenges, and then describes approaches taken by AIMS, Co. members with applications in each of three areas:

- integration with equipment, shop floor control systems and ERP
- defect, process and yield control and analysis,
- graphical factory floor status display and decision support.

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