

# Insider Threats in Cyber-Manufacturing System Security

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## Abstract

Security in Cyber-Manufacturing System (CMS)—where physical components are seamlessly connected with computational processes—have become one of the most critical research issues in CMS because the high-level of connectivity of CMS opens unprecedented opportunities for malicious cyber intrusions into the manufacturing system. What has been overlooked is the insider threats. Numerous reports point out the consequences of insiders' activities. Insiders are already within the security perimeter of a system so can pose severer threats than outsiders. This talk presents preliminary research findings along with a testbed that was set up to investigate various issues with the insider threats in CMS.