



MxD: AMMO Update

November 4, 2020

The Cybersecurity for Manufacturing Hiring Guide

MxD's Hiring Guide addresses a daunting challenge: America must build a new army to protect manufacturers' intellectual property, factories, and products from cyber-attackers that lurk in the shadows.

[The Hiring Guide: Cybersecurity in Manufacturing](#) is a playbook for building that urgently needed workforce. The Hiring Guide:

- identifies 247 job roles in cybersecurity for manufacturing;
- identifies career paths and personas of key roles; and
- defines the US ecosystem for cyber talent in manufacturing.

The Hiring Guide, developed in partnership with ManpowerGroup, is an indispensable roadmap and must-read for manufacturing executives, HR departments, educators, and policy makers.

Added new role: Manufacturing Cybersecurity Systems Operator was the first role completed in Phase II, of which an additional Success Profile and Career Pathway have been published to the updated Hiring Guide in early October 2020.



MxD Institute Update



The Digital Manufacturing Institute

Strategic Investment Plan 2021 - 2023

Strategic Investment Plan
Release

Revision: 0.5
Release Date: Oct 27, 2020

- PP-043: Predictive Maintenance in Manufacturing
- PP-064: Secure Wireless for Factory Operations
- PP-030: Secure Third-Party Access for Collaboration and/or Maintenance
- 20-25: Pathfinder Phase II: Securing 3D Printers in Manufacturing
- PP-031: Firmware Verification and Validation Tools for OT Equipment
- PP-065: Security Solutions for the Management of Legacy Equipment

MxD is developing a digital process to proactively connect the U.S. Food and Drug Administration (FDA) to the medical industry to expedite validation for products during fabrication. This would create a standard digital pathway for material testing, approval, and validation of the process or part being produced and would enable digital plans for additive manufacturing to be shared across the industrial base ([news link](#)).



CARES ACT

PATHFINDER PHASE I: Securing 3D Printers in Manufacturing

MxD PROJECT MANAGER

Romina Lara

Period of Performance

9/8/2020-3/5/2021

PROBLEM DESCRIPTION

The goal of this project is to evaluate a standalone 3D printer (Markforged's X7 printer) for compliance against current NIST security controls. The work to be performed will produce the following deliverables: a system security plan, a risk assessment report, and a Security Technical Implementation Guide(STIG) matrix.

OBJECTIVES

- Categorization of Information Systems
- Selection, Implementation, and Self-Assessment of Security Controls
- Compilation of Artifacts and Submission of Security Authorization Package