GEORGIA ARTIFICIAL INTELLIGENCE WORKFORCE REPORT

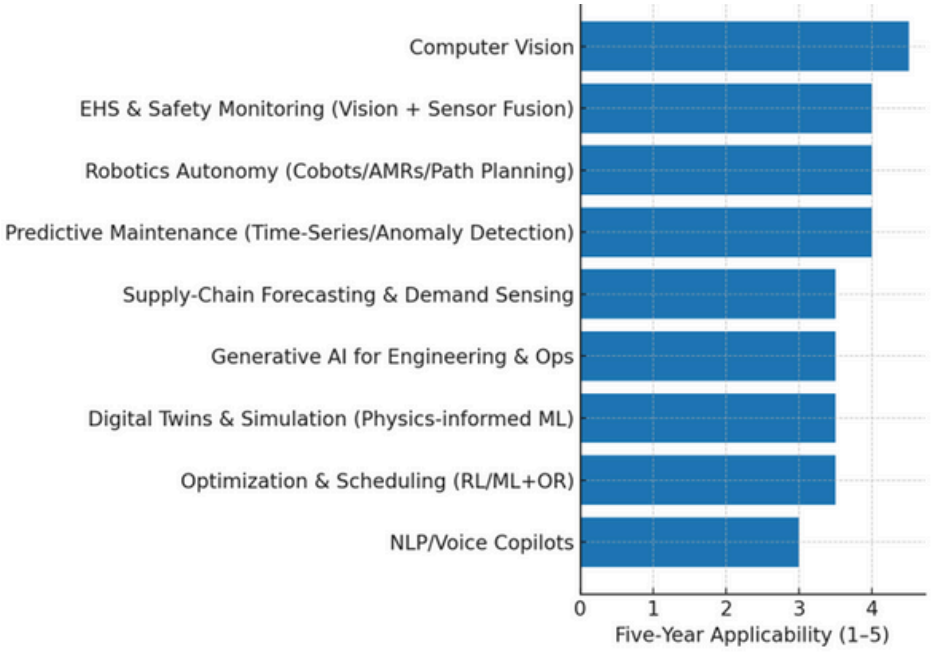
Q3 2025 AI Applications Shaping Manufacturing Jobs (2025–2030)

Artificial intelligence (AI) is transforming manufacturing more rapidly than ever before. Over the next five years, AI will automate inspection, enable predictive maintenance, expand robotics, and enhance scheduling; reshaping roles and requiring new skills. Understanding these applications is critical for companies, workers, and policymakers seeking to remain competitive in Georgia and beyond.

AI TYPES & JOB IMPACT

AI type	Use case(s)	Applicability (1–5)	Role impact
Computer Vision	Automated visual inspection,	4.5	Quality techs, line operators, EHS teams
Predictive Maintenance	Failure prediction,	4	Maintenance techs, reliability engineers
Robotics Autonomy	Material handling, assisted	4	Operators, materials handlers, cell leads
EHS & Safety Monitoring	Hazard detection, ergonomics, zone	4	EHS, supervisors, operators
Optimization & Scheduling	Production scheduling,	3.5	Planners, industrial engineers

AI Types Applicable to Manufacturing Jobs (Next 5 Years)



Providing Solutions

TAG Ed is preparing Georgia's workforce for the AI era through apprenticeships, internships, and partnerships with Google and IBM. By providing hands-on learning and industry-recognized credentials, TAG Ed ensures that students, jobseekers, and professionals are ready to thrive in AI-driven manufacturing.

SOURCES: WEF, Deloitte, IFR, McKinsey, NIST