

# Industry 4.0 Career Pathways Program



**LJ CREATE™**  
Learning for life

Prepare your students for success

LJ Create's Industry 4.0 Career Pathways Program is a program designed to provide students with an introduction to Industry 4.0 concepts and applications across multiple industry sectors.

This program will provide students with the expertise they need to succeed at college, in industrial skills programs, and industry certification courses.



INDUSTRY 4.0  
THEMES

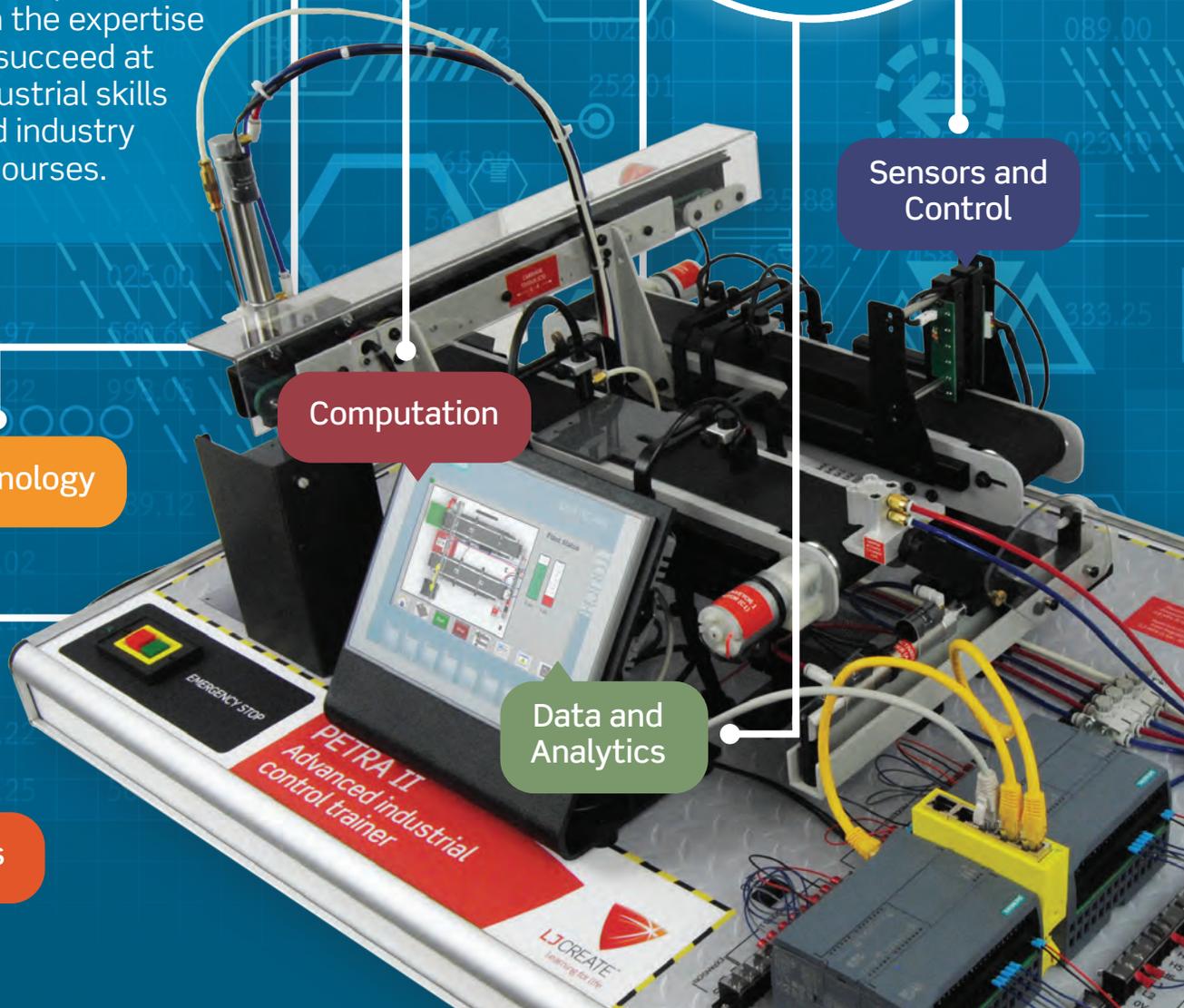
Sensors and Control

Computation

Energy Technology

Data and Analytics

Materials





# Industry 4.0 Career Pathways Program

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## MANUFACTURING

- Manufacturing Technology
- Machine Tools
- Rapid Manufacturing
- Industrial Robotics

Flexible - 45 hour block structure



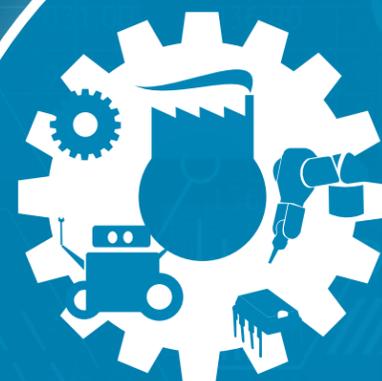
## AGRICULTURE

- Agricultural Technology
- Agricultural Science
- Natural Resources



## CONSTRUCTION

- Construction Technology
- Building Technology
- Electronic Systems
- Electrical Technology
- Energy Technology



# INDUSTRY 4.0

## CORE CURRICULUM

- Introduction to Industry 4.0
- Design Thinking
- Safety and Tool Use
- Electrical Principles
- Mechatronics
- Data and Measurement



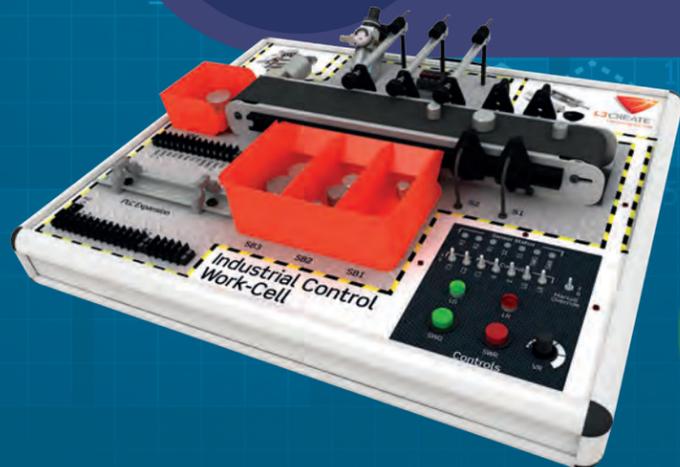
## LOGISTICS & SUPPLY CHAIN

- Mobile Robotics
- Introduction to Logistics and Warehousing
- Industrial Control



## HEALTH & BIOMEDICAL

- Biomedical Technology
- Biochemistry and Food
- Health Science
- Human Health



## TRANSPORTATION

- Transportation Technology
- Introduction to Automotive Systems
- Hybrid and Electric Vehicles



## INFORMATION TECHNOLOGY

- Computer Science
- Communications Technology
- Programming Robots
- Working with IT

# REQUIRED EQUIPMENT

Course	Equipment
Introduction to Industry 4.0 - Core	220-01 - Engineering Construction Kit
	140-10 - Basic Electricity Trainer
	278-01 - Fluid Power Student Resource Pack
	511-08 - Measurement Kit
	520-00 - Datalogging Kit
Construction	511-01 - Physics Apparatus Kit
	121-01 - Structures and Materials Student Resource Pack
	122-01 - Green Energy in Buildings Trainer
	450-00 - Electronics Circuits Trainer Teaching Set
	140-10 - Basic Electricity Trainer
Health and Biomedical	100-02 - Sustainable Energy Production Student Resource Pack
	220-01 - Engineering Construction Kit
	510-03 - Human Biology Kit
	520-00 - Datalogging Kit
Information Technology	510-01 - Biology Apparatus Kit
	220-01 - Engineering Construction Kit
	250-01 - Educational Robotics Invention Kit (ERIK)
Manufacturing	200-01 - Electronic Communications Trainer
	350-10 - Mechanical Maintenance (Molder Assembly Kit)
	506-50 - Machine Tools Class Pack
	220-01 - Engineering Construction Kit
Logistics and Supply Chain	3D Printer
	220-01 - Engineering Construction Kit
Transportation	220-01 - Engineering Construction Kit
	290-01 - Industrial Control Trainer
Agriculture	220-01 - Engineering Construction Kit
	752-01 - Displays and Accessories Systems Panel Trainer
	510-01 - Biology Apparatus Kit
	513-01 - Earth Science Apparatus Kit



If you'd like a call or visit:  
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[ljcreate.com](http://ljcreate.com)