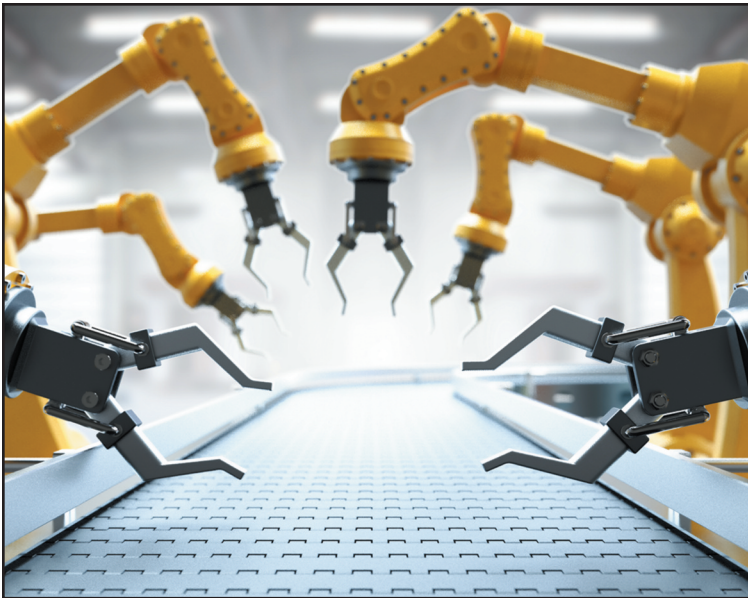


## MANUFACTURING CLUSTER

MECHATRONICS  
PATHWAY

*Mechatronics is a diverse field. It encompasses many inter-related disciplines including Electronics, Mechanics, Fluid Power, Electrical Control Systems, Programmable Logic Controllers (PLC), Computers, and Robotics. Mechatronics is a term which includes the above disciplines and takes an integrated approach to their study. People employed in the mechatronics field deal with automated systems in a wide variety of applications. They also deal with related professional and technical support activities such as production planning and control, maintenance, and engineering.*

**PATHWAY COURSES**

- Introduction to Mechatronics
- AC Theory, Electric Motors, and Hydraulic Systems
- Semiconductors Mechanical Systems, and Pump and Piping Systems

**RECOMMENDED COURSES**

- Advanced Math
- Physics
- Foundations of Engineering and Technology
- Intro to Digital Technology

**POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES**

- 4-Year Universities/Colleges
- 2-Year Colleges
- Technical Colleges
- State Registered Apprenticeships
- Special Purpose Schools
- On-the-Job Training
- Military

**CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

Source: GADOE Plans of Study

<http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Georgia-Career-Pathways-New-Rule.aspx>

**TOP CAREER CHOICES****Industrial Engineer**

Bachelor's Degree  
\$76,880 annual salary

**Industrial Engineering Technician**

Associate's Degree  
\$48,330 annual salary

**Industrial Machinery Mechanics**

On-Job-Training  
\$42,500 annual salary

**ADDITIONAL CAREER CHOICES**

Chemical Plant & System Operators  
Commercial & Industrial Equipment Repairers  
Computer User Support Specialists  
Electrical and Electronics Repairers  
Electronics Engineering Technicians  
Industrial Engineers  
Industrial Engineering Technicians  
Industrial Machinery Mechanics