

Mechatronics Technology

Description

With the strength of the global economy tied directly to manufacturing and process plant production, it is critical that industrial machinery and equipment be in working order. The Mechatronics Technology program offers instruction and hands-on experience in electricity, electronics, mechanics, hydraulics and pneumatics. You will learn to design, construct, install, troubleshoot and repair automated industrial equipment and machinery as you prepare for a career in an area which has a nationwide demand for skilled technicians. After completing the program, you can go directly to work or you may choose to take advantage of college credit toward an applied degree.

- Become the "Industrial Athlete of the future" by gaining the knowledge and skills needed in the high-growth technology-intensive jobs of the 21st century
- Learn electricity, electronics, hydraulics, pneumatics, & motors through hands-on experiences
- Design, construct, install, troubleshoot & repair automated industrial equipment & machinery

College Credit

College credit may be available through TCC, RSU, or OSU-Institute of Technology. For more details call the college relations office at 918-828-5205. All college credit is awarded by the college/university.

Credential/Industry Certifications

Completion certificate

Career Majors/Courses

Robotics Systems Technician

Courses

First Year

Safety in Manufacturing
Electrical Safety for Electronics Techs
Direct Current Circuits
Soldering for Electronics Technicians
Mechanical Fasteners/Terminals for Electronics Technicians
Motor Theory & Operation
Alternating Currents Circuits
Electrical Distribution
Electrical Schematic/Blueprint Reading
Programmable Controller Interfacing
Industrial Electricity
Workforce Staging

Second Year

Motor Control Wiring
Fluid Power Theory/Power Transmission Principles
Programmable Controller Programming
Automated Industrial Systems
Principles of Welding/Machining for Manufacturing Maintenance
Workforce Connection

Robotics Systems Technician Assistant

Courses

First Year

Safety in Manufacturing
Electrical Safety for Electronics Techs
Direct Current Circuits
Soldering for Electronics Technicians
Mechanical Fasteners/Terminals for Electronics Technicians
Motor Theory & Operation
Alternating Currents Circuits
Electrical Distribution
Electrical Schematic/Blueprint Reading
Programmable Controller Interfacing
Industrial Electricity
Workforce Staging

Application Process

Apply ON-LINE at www.tulsatech.edu/apply. Applications can also be obtained in the counseling offices on any of the campuses; at the Career Services Center located on the Memorial Complex; or by calling 918-828-5200.

Area Salary

For information concerning working conditions, physical requirements, employment and job outlook please refer to the Occupational Outlook Handbook (OOH), 2010-11 Edition at <http://www.bls.gov/oco/>.

Salary information can be found at The Occupational Information Network (O*NET) Resource Center at <http://www.onetonline.org/>. O*NET-SOC Code: 17-3024.01

Who Can Attend?

High school students / Adults

Tuition/Fees/Books

- Tuition: \$1,575*
- Lab & Required Fees: \$141.25*
- Additional Required Costs: N/A**
- Optional Fees: \$133

*High school students living in the Tulsa Tech school district are not charged tuition, fees & books.

**Additional required costs: books, equipment, tools, uniforms & supplies.

Scheduling Information

H.S. / 1-2 school years:

August - May

H.S. sessions:

7:45 - 10:45 A.M. / 11:50 - 2:50 P.M.

Adults / 9-21 months Adult sessions:

1/2 Day: 7:45 - 10:45 A.M. / 11:50 - 2:50 P.M.

Check with Admissions Office at 918-828-5260 for start dates.

Financial Aid

Financial assistance is available through several options at Tulsa Tech. For the most up-to-date information, call 918-828-5280 or visit www.tulsatech.edu. Some career majors are eligible for federal financial aid. To apply, go to: www.fafsa.ed.gov.

Mechatronics (Automation & Robotics Technology)

Employment Opportunities

Tulsa Tech's Career Placement Services team builds partnerships with Tulsa area businesses & industry to create opportunities for work-based experiences and job placement. Job search assistance is provided before and after graduation. Services include with employment information, resume building, refining interview skills and life-time access to the Tulsa Tech Job Connect database. Call Career Placement Services at 918-828-5270 or visit www.tulsatech.edu/jobconnect / email jobconnect@tulsatech.edu.

2010-2011 year completion & placement data per Oklahoma Department of Career and Technical Education guidelines:

- Total Enrolled: 46
- Completion: 50%
- Completed on-time: 100%
- Job Placement: 86%
- Returning Students to 2nd Year: 26%
- OPE ID: 005311 / CIP: 47.0303 & 15.0405

Campus Location

Broken Arrow Campus

4000 W. Florence
(129th East Ave & 111th Street South)
Broken Arrow, OK 74011-1740
(918) 828-3000
FAX (918) 828-3009
