### **Past and Projected Job Openings and Earnings**

| ar | nir | igs |
|----|-----|-----|
|    |     |     |

| Advanced Transportation<br>Occupations in Region                     | 2016<br>Jobs | 2021<br>Jobs | Job<br>Growth | 5 Year<br>Openings* | Annual<br>Openings | Entry<br>Hourly | Average<br>Hourly | Experienced<br>Hourly |
|--|--------------|--------------|---------------|---------------------|--------------------|-----------------|-------------------|-----------------------|
| First-Line Supervisors of<br>Mechanics, Installers,<br>and Repairers | 4,429        | 4,855        | 9%            | 2,352               | 470                | \$18.87         | \$34.15           | \$51.10               |
| Automotive Body and<br>Related Repairers                             | 1,599        | 1,702        | 6%            | 876                 | 175                | \$11.47         | \$19.10           | \$32.97               |
| Automotive Service<br>Technicians and Mechanics                      | 9,848        | 10,482       | 6%            | 5,281               | 1,056              | \$10.68         | \$19.20           | \$32.92               |
| Bus and Truck Mechanics and<br>Diesel Engine Specialists             | 4,519        | 5,023        | 11%           | 2,577               | 515                | \$13.29         | \$22.84           | \$33.73               |
| Mobile Heavy<br>Equipment Mechanics                                  | 1,728        | 1,862        | 8%            | 970                 | 194                | \$16.10         | \$25.98           | \$37.61               |

<sup>\*</sup>openings reflect job growth and attrition over five years

### **Auto Technician Career Path**

Most employers prefer to hire employees who have completed a vocational or community college automotive technical program.

| a vocational of community conege automotive technical program. |  |   |                       |   |  |  |  |  |
|--|--|---|-----------------------|---|--|--|--|--|
| Careers  | <b>Education Required</b>  | S | alary Range           | • |  |  |  |  |
| Manufacturer<br>Corporate<br>Employment                        | BA Degree Preferred/Required<br>+<br>Automotive Technical Degree/Certificate       |   | \$78,000-<br>\$85,800 |   |  |  |  |  |
|  |  |   |                       |   |  |  |  |  |
| General Manager<br>Service<br>Department                       | AA Degree in Business<br>+<br>Auto Management Classes<br>Auto/Technical Background |   | \$67,800-<br>\$74,580 |   |  |  |  |  |
|  |  |   |                       |   |  |  |  |  |
| Service<br>Writer  | AA Degree in Business<br>Auto Management Classes<br>Auto/Technical Background      |   | \$42,000-<br>\$46,200 |   |  |  |  |  |
|  |  |   |                       |   |  |  |  |  |
| Senior<br>Tech   | ASE Certified Master Tech + AS Degree in Automotive Technology                     |   | \$32,300-<br>\$35,530 |   |  |  |  |  |
|  |  |   |                       |   |  |  |  |  |
| Technician   | ASE Certifications<br>+<br>Auto Technology Certificate                             |   | \$24,000-<br>\$28,000 |   |  |  |  |  |
|  |  |   |                       |   |  |  |  |  |
| Entry<br>Level   | Quick Service Installer Program<br>or<br>Auto 100                                  |   | \$21,000-<br>\$25,000 |   |  |  |  |  |

## Riverside City College

4800 Magnolia Ave., Riverside, CA 92506

#### **Automotive Programs:**

- A.S., Automotive Body Repair
- Automotive Body Repair Certificate
- A.S., Automotive Technology
- Automotive Technology Certificate
   A.S. Automotive Teim & Unbalatore
- A.S., Automotive Trim & Upholstery
  Automotive Trim & Upholstery Certificate
- A.S., Automotive Electrical
- Automotive Electrical Certificate
- A.S., Ford Specialty
- A.S., General Motors
- A.S., Mechanical
- Mechanical Certificate
- A.S., Toyota T-Ten
- Toyota T-Ten Certificate
- Automotive Technology-Mechanical

#### Contact:

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paul.oconnell@rcc.edu

www.rcc.edu/departments/careertech/appliedtech /Pages/Auto-Technology.aspx

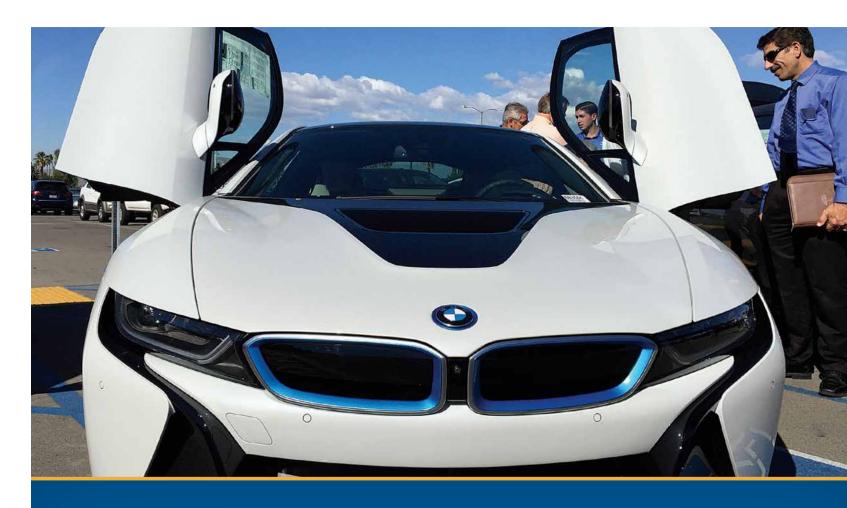






# Automotive Technology Career







### Fast Track to an Automotive Technology Career at Riverside City College

"Tesla Model S chassis. Instructors at Roundtable event with Tesla Motors discussing innovations in automotive technology and how they use technicians"

# **Fast Track to an Automotive Technology Career**

There are many paths to an automotive technology career. Our College offers the training necessary for a successful future in automotive technology. Choose from many different tracks, such as classes in auto mechanical general service to specialized service such as drive train, electric/hybrid systems, and engine performance courses.

#### Why Choose a Career in **Automotive?**

The average wage across our region for automotive service technicians and mechanics is \$39,900 annually, or \$19.20 hourly. To start, you only need to have a high school diploma, although most employers prefer to hire employees who have completed a post-secondary vocational or community college automotive technician training program.

#### **Program Highlights**

Our programs are supported by a wide variety of partners from both the state, college, and private industry. Most colleges offer specific corporate programs to ready you for a career in the auto industry. Our corporate programs include well-known companies such as General Motors, Ford, and Chrysler, as well as Imports.

Southern California is a great place to start your career in the automotive industry. Southern California is home to over 500 new car dealerships, and in addition many corporate offices are located here, including BMW. Chrysler, Ford, General Motors, Hyundai, Isuzu, Kia, Mazda, Suzuki, Toyota, and others! Plus, career enhancement opportunities exist for all graduates to progress within the dealer organization, including as a Service Manager, Parts Manager, and Service Advisor to name just a few.

#### Qualifications

For anyone planning ahead for a career in automotive technology, students are advised to take courses in English, mathematics, computer technology, electronics, and auto and machine shop. To be successful, a high degree of mechanical ability as well as customer and personal service, engineering and technology knowledge, and critical thinking are necessary, as well as manual dexterity, auditory attention, and visualization.



Automotive technologies are becoming more advanced

## **Industry Sector Pathway:**

**Automotive/Advanced Transportation** 

#### **Secondary Courses** (Technical)

#### **Most H.S. Level Programs Organize Their Courses as Follows:**

#### Intro to Auto 1

- Overall Systems
- Basic Theory
- Some Tires

#### Intro to Auto 2

- Electronics/Electrical
- Brakes

#### Intro to Auto 3

- Suspension Chassis
- Steering

#### M.L.R. Preparation

• MLR 1. MLR2. MLR3

#### **Additional Opportunities Include:**

**AYES Opportunity ASE Preparation ASE Student Certificate** 

#### Secondary (Academic)

#### Math

- Measuring
- Conversions
- Angles

Reading Standard Documents & Instructions

Communications Oral/Written **Computer Applications** Interpreting Diagrams & Charts Information Retrieval & Data



#### 2-Year/Community **College Programs**

#### **Most college Level Programs Organize Their Courses as Follows:**

#### ASF 1-9 ordered

- Engine Repair
- Auto Transmissions
- Man. Transmissions
- Suspension
- Brakes
- Electrical
- A/C
- Engine Performance
- Diesel/Heavy Duty

#### **Advanced Course Opportunities Include:**

Electric & Hybrid Technologies Alternative Fuels/CNG/LNG **Emissions Testing** 

**On-Board Computer Systems** Software Tech

Networking Auto Machining

Auto Body Frame Repair

- Paint
- Welding & Cutting

**Pathway** 

**Options** 

#### **Which Path? More Education or Enter Workforce**

#### **Community College Prep Programs**

#### **Business Education**

- Business Plan
- Supervision
- Customer Service
- Inventory Mgt.
- Financial Mgt.

#### **Transfer Preparation**

- Math
- Physics • Gen. Ed
- CSU/IGETC

#### **4-Year Transfer/Degree**

- Business Management
- Electrical Engineering
- Mechanical Engineering
- Software Engineering
- Environmental Engineer

#### **Employment Opportunities**

#### **Entry Level:**

Lube Tech Tire & Battery Service Porter (Lot)

Parts Counter/Delivery

Inspection Auto Body Tech

Glass Installer

Upholstery/ Interior Audio/Sound/Network

Small Engine Repair

**Assemblers** Emissions/Smog Check Tech **HVAC** Tech

#### Middle Skill:

Service Manager Shop Foreman

Team Leader/Master Tech

**Quality Control** 

Service Writers Cylinder Block Spec

Cylinder Head Machining Machining (CNC)

Motorcycle Mechanic Dissemblers

#### Retail Dealer High Skill:

Owner/Entrepreneur Data Acquisition/Analysis Tech Factory Engineering Tech

Teacher Software Engineering High Performance Engineering

# Are You Good At?

- Repairing Things
- Problem Solving
- Trouble Shooting Active Listening

#### **Wondering How to Get Started?**

We offer a variety of automotive certificates, and can help you on your way to achieving an AS degree as well with the addition of a few general education classes. Just pick your path and choose between day or night classes! Many certificates can be finished within a year, and financial aid and scholarships are available.

#### **Automotive Information Links:** Automotive Youth Educational

Systems http://www.ayes.org/

**National Automotive** Technicians Education Foundation http://www.natef.org/

National Institute for Automotive Service Excellence http://www.ase.com/

## Knowledge

### Do You Like?

- Mechanical Repairs
- Customer Service New Technologies
- Working with Computers

#### **Soft Skills for Employment**

Reliable, Timely, Driver's License, Good Driving Record, Professional Clean Language, Honesty, Cell Phone Do's & Don'ts, Communication (Oral, Written, Body Language), Work Ethic, Interpersonal Skills, Responsibility "No Excuses", Team Work, Show Initiative, Don't Just Stand There!, Attitude, Job Search Skills, Eye Contact, Firm Handshake, Personal Presentation, Resume Writing