AEROSPACE & DEFENSE
HOW THE TULSA REGION WILL WORK FOR YOU
TULSA'S HERITAGE IS AEROSPACE

» Tulsa has significant assets in the aerospace industry. Companies have developed an extended value chain of suppliers, producers and customers for the aerospace sector, making it a major economic generator for Tulsa and the surrounding regions.

» Tulsa’s aerospace cluster has grown by leveraging Oklahoma’s pioneering spirit, quality of life, business-friendly environment, the strong work ethic of its skilled and credentialed workforce, and its network of government and education resources.

» Tulsa’s American Airlines Maintenance & Engineering Center is one of the world’s largest commercial Maintenance, Repair & Overhaul (MRO) facility in the world, helping to make Oklahoma one of the seven centers in the world for MRO.


WE HAVE THE WORKFORCE (MAY 2019)

» Area workforce: 317,931 county; 473,421 MSA; 1,831,290 state

» Area unemployment rate: 3.0% county; 3.1% MSA; 3.1% state

» Population (2018 Estimate): 405,785 city; 649,399 county; 999,440 MSA

» 2017 employment unionized: 5.2%

TULSA INTERNATIONAL AIRPORT (TAA, FEB. 2019)

» Located on 4,929 acres – 700+ shovel-ready acres available for immediate development

» Ten minutes from most points in the metro including downtown Tulsa and the Port of Catoosa

» 23 gates and three runways – 10,000, 7,376 and 6,101 feet in length

» Non-stop jet service to 19 cities with an average 55+ departures per day

» Four freight carriers; 2018 air freight – 131.6 million pounds

» U.S. Customs offices

» Daily flights on American, Delta, Southwest, United, Allegiant, ViaAir & Frontier

WHERE BUSINESS GROWS.

INDUSTRIAL LOCATIONS THAT WORK (OCT. 2018)

» Market size – 96,394,138 sq. ft.

» Available sq. ft. – 3,277,601  Vacancy 3.4%

» Lease rates – $3.41 to $10.03 sq. ft.

LAND TRACTS LARGE AND SMALL (OCT. 2018)

» More than 31 developed industrial/business districts

» Tulsa Port of Catoosa (onsite intermodal access)

» Tulsa International Airport (700+ shovel-ready acres)

TRUE INTERMODAL TRANSPORTATION

» Tulsa is a true intermodal city offering four forms of transportation—ground, air, rail and water.

» Tulsa offers air cargo service through three freight carriers at Tulsa International Airport, 50+ local motor freight companies, rail service through two mainline-carriers and three short-line carriers and barge service through the Tulsa Port of Catoosa.

» Tulsa’s central location makes access to most parts of the country cost-effective and timely.

COMPETITIVE COST OF LIVING (C2ER 1ST QTR, JUNE 2019)

» Home price (new 4-bedroom, 2-bath, 2,400 sq. ft.) - $230,634

» Apartment rent (950 sq. ft., 2-bedroom, 2-bath) - $683

» Monthly total residential energy costs - $157.96

» Doctor visit - $108.50  Dentist visit - $82.50

AEROSPACE & DEFENSE

<table>
<thead>
<tr>
<th>HIGHLY-SKILLED AEROSPACE OCCUPATIONS Tulsa MSA</th>
<th>EMPLOYMENT (1)</th>
<th>AVG. HOURLY WAGE (2) (Entry Level)</th>
<th>AVG. HOURLY WAGE (2) (10 years experience)</th>
</tr>
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<tbody>
<tr>
<td>Aerospace Engineers</td>
<td>194</td>
<td>$39.98</td>
<td>$59.15</td>
</tr>
<tr>
<td>Mechanical Engineers</td>
<td>1,120</td>
<td>$36.56</td>
<td>$52.05</td>
</tr>
<tr>
<td>Electrical Engineers</td>
<td>551</td>
<td>$36.26</td>
<td>$54.75</td>
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<tr>
<td>Chemical Engineers</td>
<td>67</td>
<td>$39.25</td>
<td>$51.52</td>
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<tr>
<td>Materials Engineers</td>
<td>92</td>
<td>$35.91</td>
<td>$51.24</td>
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<tr>
<td>Software Applications Engineers</td>
<td>1,731</td>
<td>$36.49</td>
<td>$52.30</td>
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<tr>
<td>Software Design Engineers</td>
<td>1,737</td>
<td>$35.30</td>
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<tr>
<td>Logistics Engineers</td>
<td>446</td>
<td>$27.91</td>
<td>$40.72</td>
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<tr>
<td>Certified Electricians</td>
<td>1,761</td>
<td>$21.07</td>
<td>$29.23</td>
</tr>
<tr>
<td>Machine Tool Operators</td>
<td>3,386</td>
<td>$17.34</td>
<td>$24.14</td>
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<tr>
<td>Computer Aided Machinist</td>
<td>1,292</td>
<td>$17.97</td>
<td>$25.49</td>
</tr>
<tr>
<td>Tool &amp; Die Makers</td>
<td>201</td>
<td>$23.63</td>
<td>$33.72</td>
</tr>
<tr>
<td>Welders</td>
<td>3,665</td>
<td>$18.88</td>
<td>$26.12</td>
</tr>
<tr>
<td>Aircraft Mechanics</td>
<td>1,170</td>
<td>$23.25</td>
<td>$32.67</td>
</tr>
<tr>
<td>Inspectors &amp; Testers</td>
<td>2,391</td>
<td>$18.36</td>
<td>$25.54</td>
</tr>
</tbody>
</table>

WHY THE TULSA REGION WORKS FOR YOU

» Career-ready workforce - Tulsa’s certified, skills-tested workforce supports a diverse, technologically advanced aerospace industry. Tulsa Regional Chamber’s workforce team assists with all human resource needs, including recruitment, workforce screening and no-cost/low-cost customized workforce training. Oklahoma is a right-to-work state.

» Competitive business cost, affordable quality of life - Tulsa offers abundant local access to reliable and affordable energy sources and labor costs, which are well below the national average. The standard of living is among the best in the nation with affordable housing, impressive spending power and a stable economy.

» Centralized location facilitates distribution and marketing access - Reduce logistics and transportation costs by locating in Tulsa, which offers easy access to all modes of transportation, including the nation’s most inland ice-free water port.

» Superior business incentives - Oklahoma’s business incentive program offers a choice of up to 5 percent cash back quarterly of new taxable payroll and/or a tax credit on investment of new jobs. Ad Valorem Property tax exemptions are available for qualifying manufacturing companies, and tax credits are provided to engineers hired by aerospace companies and aerospace companies who hire engineers.

» Nationally Recognized Education and Training - Oklahoma is recognized as a leader in advanced research and technology resources. A world-class network of quality education prepares Tulsans with a wide range of skills and knowledge needed for the technology-driven global economy. Oklahoma’s Training for Industry Program is recognized as one of the best training programs in the nation.

TULSA VALUES ADVANCED MANUFACTURING
IMPACT OF ONE YEAR’S OPERATION
ADVANCED MANUFACTURING

<table>
<thead>
<tr>
<th>IMPACT TYPE</th>
<th>EMPLOYMENT</th>
<th>TOTAL ECONOMIC IMPACT</th>
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</thead>
<tbody>
<tr>
<td>Direct Effect</td>
<td>20,026</td>
<td>$1,814,009,075</td>
</tr>
<tr>
<td>Indirect Effect</td>
<td>12,021</td>
<td>$986,890,465</td>
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<tr>
<td>Induced Effect</td>
<td>14,189</td>
<td>$1,021,814,576</td>
</tr>
<tr>
<td>Total Effect</td>
<td>46,236</td>
<td>$3,822,714,115</td>
</tr>
</tbody>
</table>

KEY POINTS RELATED TO THE AEROSPACE SECTOR IN THE TULSA 11-COUNTY AREA:

» Each job in aerospace contributes $90,583 to gross product for the Tulsa 11-county area.

» One job in aerospace supports 0.6 jobs in resource-supplying companies.

» Throughout the Tulsa-area economy, one job in aerospace supports 1.3 additional jobs across all sectors.

» Each dollar of income by an employee in aerospace supports the earning of an additional $0.90 throughout the Tulsa area economy.

» Each dollar of production (value added) in Tulsa-area aerospace supports additionally $1.10 of gross product throughout the economy.

» One year’s activity in Tulsa-area aerospace supports total sales tax of $100.2 mil. and total property tax of $54.3 mil.

THE GOOD NEWS KEEPS COMING...

» One of the lowest “cost of doing business” in the nation

» Among the shortest commute times in the nation

» Cost of living averages 14 percent below the national average

» Per capita income higher than the national average

» Recent new business announcements include Amazon, Morcon Tissue, Sofidel, Greenheck, Ingredion, Roan Resources, Logistyx Technologies, Containment Solutions, TRC Companies, ARC Facility and Big Elk Energy Systems.

» Recent expansions include Whirlpool, Spirit AeroSystems, A AON, Baker Hughes, Summitt ESP, Vallourec Star, TMK IPSCO, AXH Air-Coolers, Lauren Engineering & Constructors, Tactical Elecronics and Military Supply, and L-3 AMI.

» No. 1 city among top 25 most affordable cities to live and work 2019 (BusinessStudent.com 2018)

» No. 1 state with the lowest overall tax burden (Anderson Economic Group 2017)

» No. 1 city among top 100 U.S. metros on growth and inclusion (Brookings Institute 2016)

» No. 3 among top U.S./European cities for innovative municipal problem solving (Cities of Service 2018)

» No. 3 most popular city for extremely active millennials (ActiveNetwork.com 2017)

» No. 3 state for wind power capacity (American Wind Energy Association 2017)

» No. 4 best large city for starting a business (WalletHub.com 2017)

» No. 5 best city for first-time homebuyers (SmartAsset.com 2017)

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Indirect Effect 12,021 $986,890,465
Induced Effect 14,189 $1,021,814,576
Total Effect 46,236 $3,822,714,115
OUR ECONOMIC DEVELOPMENT STAFF IS HERE TO HELP YOU

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NATIONALLY RECOGNIZED REGIONAL ECONOMIC DEVELOPMENT SERVICES

New business attraction offering confidential, one-stop site location services and incentives analysis
Business retention and expansion
Workforce development and attraction
Research and economic data
Tulsa’s Young Professionals
Customized workforce analysis
The Forge, entrepreneurship and incubator programs

Regulations, permits, coding and zoning assistance
Small business development
Small Business Connection
Employee relocation assistance
Legislative advocacy
Manufacturers’ Council
Downtown development