

State of Oklahoma Incentive Evaluation Commission

Aerospace Employer & Employee Tax Credits Draft Evaluation

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Contents

| Key Findings and Recommendations | 3 |
|------------------------------------|----|
| Introduction | |
| Industry Background | 9 |
| Incentive Usage and Administration | 18 |
| Fiscal Impact | |
| Incentive Benchmarking | 28 |



Key Findings and Recommendations



Incentive Overview

Effective January 1, 2009, the State enacted a package of tax credits designed to "address the critical shortage of engineering and technical talent facing the Oklahoma aerospace industry," including:

Table 3: Summary of Tax Credits for Aerospace Employers and Employees

| Incentive | Program Description* |
|---|---|
| Tax Credit for Compensation Paid by Aerospace Employers ("Employer Credit") | Qualified employers can receive an income tax credit for compensation paid to a qualified employee. The credit is equal to 10% of the compensation paid for the first five years of employment in the aerospace sector if the employee graduated from an in-state institution or 5% if from an out-of-state institution. The credit is capped at \$12,500 per employee per year and is non-refundable, non-transferrable and cannot be carried forward. |
| Tax Credit for Aerospace Employees ("Employee Credit") | Qualified employees in the aerospace sector can receive income tax credits of up to \$5,000 per year for up to five years. Unused credits can be carried forward for five years but are non-refundable. |

Source: 68 O.S. §§ 2357.302-304

Recommendation: Retain, with modifications.

Key Findings Pertaining to the Employer Tax Credit

■ Between 2020 and 2022, the number of employer returns claiming the credit decreased by a compound annual growth rate (CAGR) of 5.3 percent. Simultaneously, the amount used to reduce tax liability, representing the foregone revenue to the State, has decreased by 7.8 percent, from \$291,056 to \$247,654. The amount used to reduce tax liability on a per return basis has decreased more modestly from \$5,018 to \$4,763, or by a CAGR of 2.6 percent.

Key Findings Pertaining to the Employee Tax Credit

- Between 2009, the year Oklahoma's credits began being offered, and 2024, aerospace engineer employment has increased by a CAGR of 8.6 percent. At the national level, aerospace engineer employment declined by a CAGR of 0.2 percent. This suggests that while a skills gap continues to exist, Oklahoma's efforts to recruit aerospace engineers have been successful relative to other states, perhaps due, in some degree, to the existence of the incentive programs.
- Despite the prevalence of the industry in Oklahoma's economy, employers continue to face a skills gap in recruiting aerospace engineers. The number of degrees conferred in engineering fields at public institutions in Oklahoma decreased between 2018 and 2024, from 2,814 to 2,140. The decrease in degree conferral simultaneous to the increase in employment may indicate Oklahoma's relative success, due, in some degree, to the incentive, at attracting out-of-state talent.
- The skills gap is compounded by growing recruitment and retention challenges. According to a 2025 study conducted by the Aerospace Industries Association, roughly a quarter of the aerospace and defense workforce is over 55.
- Annual median wage growth for aerospace engineers in Oklahoma has lagged behind that of other industries in Oklahoma as well as national industry trends. Over the past twenty years, aerospace engineer wages have increased by a CAGR of 2.0 percent, compared to overall Oklahoma

¹ Per HB 3229



pay increases of 3.0 percent. In 2024, average annual aerospace engineer pay was \$109,920 in Oklahoma, compared to \$136,110 in bordering states and \$134,830 nationally. Some, but not all, of this difference is accounted for by regional price parity differences. While the credit is not aimed at payroll growth, the credit's value is diminished by the existing pay gap and may not be substantial enough to attract some talent that would otherwise be employed in another state.

- Credit use and total amount claimed have remained fairly constant in recent years, declining slightly in tax year 2022. While use was increasing annually at the time of the previous evaluation, use of the credit seems to have stabilized with an average of 2,738 jobs and \$21.2 million claimed.
- The estimated State tax revenue exceeds the cost to the State on an annual basis, as measured by the amount claimed. The Gross State Product (GSP) associated with program employment is estimated to generate over \$25.8 million in tax revenue to the State of Oklahoma, yielding \$1.23 in tax revenue per \$1.00 in program spending. In order for the fiscal returns to the state as a result of the program on a per dollar claimed basis to exceed \$1.00, at least 81 percent of the employment claiming the credit must be directly attributable to the tax credit program itself, meaning those employees would not have located in Oklahoma but for the availability of the incentive program.
- The total economic activity associated with the tax credits substantially exceeds the cost to the State each year. For each \$1 paid by the State between tax years 2020 and 2022, the economic output generated ranged from \$67 to \$76 annually. In 2022, the most recent year with data available, total economic activity associated with the 2,722 jobs for which claims were made reached \$1.5 billion. Indirect and induced activity supported an additional 1,262 jobs, with total employment reaching 3,984 jobs.
- The incentive's Accreditation Board for Engineering and Technology (ABET) accreditation requirement continues to cause confusion for employees claiming the credit. Several of the program's key stakeholders noted that many claimants learned that they did not qualify for the credits after their tax forms claiming the credit had been approved. Ineligible claims are identified through the Oklahoma Tax Commission's Compliance Division audits, whereover 5.7 percent of claimants were ineligible but had claimed the tax credits.
- Oklahoma's tax credits for aerospace engineers remain somewhat unique compared to other states. Kansas has a similar suite of programs aimed at recruiting aviation employees, including payroll-based benefits and tuition reimbursement. While some states, such as North Dakota and Arkansas, offer tax incentives in order to recruit for hard-to-fill positions or compensate employers for tuition reimbursement provided, none are aimed at a specific industry like Oklahoma's program.

Recommendations Pertaining to the Employee Tax Credit

- Increase the amount of the credit by an amount that accounts for some or all of the reduction in value because of inflation since the credit's introduction. Since the credit's introduction in 2009, inflation has reduced the value of the credit by 50.6 percent. Between 2009 and 2025, aerospace engineer pay has increased, as has the cost of living. Due to these factors, the \$5,000 amount may no longer be sufficient to attract talent that would locate in the state because of the program.
- Provide a list of frequently asked questions with the tax form in order to limit the number of ineligible claimants. Despite clear language on the tax form itself, the by-right nature of the program and the lack of simplicity related to identifying program eligibility contributes to a high volume of ineligible employees claiming credits, which later end up clawed back. A list of frequently asked questions or centralized repository to review eligible and ineligible programs may serve to deter this activity.



Introduction



Incentive Evaluation Commission Overview

In 2015, HB 2182 established the Oklahoma Incentive Evaluation Commission (the Commission). It requires the Commission to conduct evaluations of all qualified state incentives over a four-year timeframe. Between 2016 and 2024, the Commission conducted more than 100 evaluations.

The State's Tax Credits for Aerospace Engineer Employees and Employers, first evaluated in 2016 and evaluated again in 2020, are among the programs scheduled for an updated review by the Commission in 2025. Based on this evaluation and their collective judgment, the Commission will make recommendations to the Governor and the Legislature related to these incentives.

2020 Evaluation: Key Findings and Recommendations

Significant findings from the 2020 evaluation of these programs are displayed in the following table.

Table 1: Summary of Findings, 2020 Evaluation

| Fiscal and Economic Impact | Fiscal Impact: Between 2013 and 2017, the average amount used to reduce tax liability, representing foregone tax revenue for the State, was \$1.6 million for the Employer Tax Credit and \$6.0 million for the Employee Tax Credit. Economic Impact: Between 2013 and 2017, the employer and employee tax credits resulted in between \$72 and \$89 of economic output per \$1 paid by the |
|---|--|
| | State. In 2017, the programs supported 2,384 jobs and \$1.6 billion in economic output. |
| Adequate Protections for | The various benefit limitations, coupled with the fact that these credits are |
| Future Fiscal Impact? | neither transferable nor refundable and have a limited (5 year) carry-forward, provide adequate protection against significant, unanticipated fiscal impact. |
| Effective Administration? | The incentive's Accreditation Board for Engineering and Technology (ABET) accreditation requirement has led to confusion among some employees claiming the Employee Tax Credit. |
| Achieving Its Goals? | Overall, the "skills gap" still exists within the aerospace industry, however the industry continues to grow, and the number of aerospace engineers employed outperforms other types of engineering jobs. Additionally, Oklahoma has seen a rise in the number of related degrees conferred within the state. |
| Changes to Improve Future Evaluation | Enhance employer reporting to show the overlap with Quality Jobs incentives. Consider broadening the employee tax credit incentive eligibility and clarify eligibility requirements in statute. |

The project team recommended in 2020 that the program be retained. The Commission voted 5-0 to approve the project team's recommendation, and the incentive is still in place. Further, the sunset date for this credit program was extended through tax year 2032, per SB287, which was enacted in 2024.

2025 Criteria for Evaluation

The provisions of HB 2182 require that criteria specific to each incentive be used for the evaluation. A key factor in evaluating the effectiveness of incentive programs is to determine whether they are meeting the Aerospace Employer and Employee Tax Credits Draft Evaluation



stated goals as established in state statute or legislation. In the case of this tax credit, the specific goal included in legislation is to "address the critical shortage of engineering and technical talent facing the Oklahoma aerospace industry."²

Additionally, to assist in a determination of program effectiveness, the Commission has adopted the following criteria:

- Number and dollar value of approved credits by year of program;
- Employment growth in state aerospace industry comparison to period prior to the credit and comparable states;
- Payroll growth in state aerospace industry comparison to period prior to the credit and comparable states;
- Change in measures of the 'skills gap' for engineering and technical skills in the aerospace industry;
- Use with other related State business incentives;
- Return on investment.

2025 Evaluation Approach

To conduct its 2025 review of these tax credits, the project team conducted the following activities:

- Submitted a data request to the Oklahoma Tax Commission (OTC);
- Reviewed and analyzed OTC-provided data;
- Completed subject matter expert/internal stakeholder interviews with representatives from the OTC,
 Department of Commerce, and Oklahoma Department of Aerospace and Aeronautics;
- Benchmarked Oklahoma to other states.

² Per HB 3239 of the 51st Oklahoma Legislature. Available at http://okhouse.gov/Documents/2008SessionInReview.pdf



Industry Background



Oklahoma Aerospace Background and History

Oklahoma is home to one of the nation's foremost aerospace and aviation industries, with roots tracing back to the early 20th century, when aviation pioneer Clyde Cessna began testing aircraft in the state. Following World War I, two airlines were established in Oklahoma – both of which were later acquired by American Airlines.³ During World War II, the federal government constructed two major industrial facilities in the state to produce bombers for the U.S. Army Air Forces. One of these facilities evolved into Tinker Air Force Base, now recognized as the world's largest aircraft maintenance and military aviation logistics center.⁴

Today, aerospace and aviation remain vital pillars of Oklahoma's economy. Per the Oklahoma Department of Commerce, the aerospace and defense sector is the state's fastest growing industry, with over \$146 million in new capital investment secured in 2024 alone. This growth has been driven by 25 new or expanding businesses, resulting in the creation of more than 1,000 new jobs.⁵

The Aerospace Engineering Skills Gap

The "skills gap" defines a fundamental mismatch between the skills that employers rely upon in their employees, and the skills that job seekers possess. This mismatch makes it difficult for individuals to find jobs and for employers to find appropriately trained workers.⁶

Specifically in the aerospace and defense industry (A&D), which can require highly specialized and technical knowledge, employers are left with critical gaps as their workforce continues to age and retire. A 2024 study conducted by McKinsey's Aerospace & Defense Practice estimated that closing the talent gap could be worth over \$300 million in global potential cost avoidance and financial outcomes. A younger workforce leads to manager and middle manager attrition and vice versa, raising retraining costs and leaving cognitive gaps in the remaining workforce. The Bureau of Labor Statistics (BLS) estimates that, between 2023 and 2033, the United States will need 4,100 new aerospace engineers every year, sparking the need for more young people to pursue degrees in science, technology, engineering, and mathematics (STEM) in order to close the gap. The BLS' estimates may in fact under-project the workforce needed, as growing interest in space enterprise may amplify the need.

In their 2025 Annual Workforce Study, the Aerospace Industries Association (AIA) found that the most difficult to fill roles were for skilled technical labor workers and mid-career engineers. The majority of companies surveyed indicated that their top candidates who did not accept job offers did so based on higher salaries elsewhere, highlighting the competitive compensation environment in the industry. Despite increasing

³ The University of Tulsa Department of Special Collections and University Archives, "The Rise of the Aerospace and Aviation Industries in Oklahoma," (February 18, 2013). Available at http://orgs.utulsa.edu/spcol/?p=2798

⁴ Oklahoma Historical Society, "The Encyclopedia of Oklahoma History and Culture: Tinker Air Force Base." Available at https://www.okhistory.org/publications/enc/entry?entry=TI004.

⁵ Oklahoma Department of Commerce, "Aerospace and Defense Continue Rapid Growth in 2024 With Almost \$150 Million in New Capital Investment," (April 2, 2025). Available at https://www.okcommerce.gov/wp-content/uploads/Aerospace-and-Defense-Continue-Rapid-Growth-in-2024-With-Almost-150-Million-in-New-Capital-Investment.pdf.

⁶ The Brookings Institution, "Understanding the Skills Gap – and What Employers Can Do About It," (December 6, 2019). Available at https://www.brookings.edu/research/understanding-the-skills-gap-and-what-employers-can-do-about-it/

⁷ McKinsey & Company, "The talent gap: The value at stake for global aerospace and defense," (July 17, 2024). Available at https://www.mckinsey.com/industries/aerospace-and-defense/our-insights/the-talent-gap-the-value-at-stake-for-global-aerospace-and-defense.

⁸ Bureau of Labor Statistics, "Aerospace Engineers Summary". Available at https://www.bls.gov/ooh/Architecture-and-Engineering/Aerospace-engineers.htm.

⁹ Aerospace Industries Association, "Accelerating progress: maximizing the return on talent in A&D," (2025). Available at https://www.aia-aerospace.org/wp-content/uploads/AIA-McKinsey-Annual-Workforce-Study-2025.pdf.



workforce growth (3.7 percent between 2021 and 2022 compared to 4.8 percent between 2022 and 2023), increased demand outpaces the labor market supply, especially for engineering roles. ¹⁰ As the technology used in the aerospace and defense sectors accelerates, many of the engineers needed are opting to work at traditional technology companies, both creating a skills gap and potential security and safety threats in A&D.

Not only is the industry facing recruitment challenges, but attrition and retention challenges create a compounding threat to the workforce, with nearly a quarter of the A&D workforce over 55.¹¹ Attrition rates are significantly higher in the A&D sector than other industries and, despite modest decreases over the past four years, is anticipated to continue increasing due to competition.

Despite these observations and the Oklahoma State Regents for Higher Education finding that Oklahoma is still in need of more traditional STEM graduates, data shows that, between academic years 2015 and 2024, the number of STEM degrees conferred in the state trended upward. Across all degree types, total degrees conferred increased from 6,700 to 8,194, a Compound Annual Growth Rate (CAGR) of 2.0 percent. ¹² Over the same period, the total number of engineering degrees conferred in the State increased for three years to 2,814 in academic year 2018, then fell through academic year 2024.

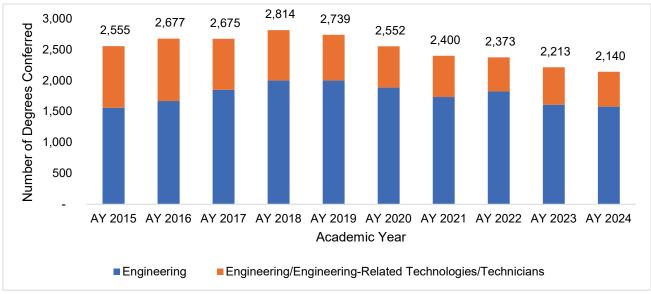


Figure 1: Degrees Conferred at Oklahoma Public Institutions, Engineering Fields*

Source: Oklahoma State Regents for Higher Education

Despite lagging growth in degree and certificate conferrals and a widening skills gap, Oklahoma remains well-established and competitive within the aerospace industry overall. To better understand how aerospace employment growth in Oklahoma compares to national trends, PFM conducted a shift-share analysis. This analytical method helps isolate the factors driving state employment changes by comparing industry performance to national benchmarks. The shift share analysis examines data within Oklahoma's aerospace sector, defined by NAICS codes, broken into three components:

Shared growth effect: how much a change in employment is due to overall U.S. economic growth;

^{*} Fields of study include Engineering and Engineering/Engineering-Related Technologies/Technicians

¹⁰ Ibid.

¹¹ Ibid.

¹² Oklahoma State Regents for High Education, "STEM Degrees and Certificates Conferred by Institution, AY15 to AY24."



- Industry mix effect: how much the change in employment is due to the performance of the industry nationally;
- Competitive component: how much of the change in employment is due to Oklahoma's unique advantages (or disadvantages).

Table 2 presents the shift share analysis for the three identified aerospace engineer subsectors:

Table 2: Oklahoma Aerospace Employment Shift Share Analysis

| radio = remainema ricrospace = inproj.incinc emia e raminjere | | | | | | | |
|---|-------------|-------------|---------|---------|---------------|-------------|---------------------|
| Description | US 2014 | US 2024 | OK 2014 | OK 2024 | Share Comp | Mix Comp | Competitive Comp |
| Total Private Employment | 115,568,686 | 132,453,345 | | | | | |
| Aerospace Product & Parts Manufacturing | 486,689 | 559,825 | 7,085 | 13,455 | 1,035 | 30 | 5,305 |
| Aerospace Systems & Components Manufacturing | 123,446 | 122,682 | 493 | 551 | 72 | -75 | 61 |
| Aerospace Research & Development | 391,980 | 546,842 | 809 | 1,389 | 118 | 201 | 260 |

Source: QCEW data for NAICS codes 336400, 334511, and 541751

The analysis indicates that Oklahoma's aerospace sector has experienced significant employment growth, particularly in aerospace product and parts manufacturing, which added over 6,000 jobs. Of this growth, 5,305 jobs are attributed to competitive effects, meaning Oklahoma outperformed national trends. The share component of 1,035 jobs reflects growth expected from overall national expansion, while the mix component of 30 jobs shows a modest contribution from the aerospace industry's national performance.

By contrast, Aerospace systems and components manufacturing saw minimal growth, with a slightly negative mix component, indicating national decline in the subsector, but positive competitive component of 61, indicating that Oklahoma still outperformed the national average. Aerospace research and development also showed strong growth with a competitive component of 260 jobs, highlighting Oklahoma's increasing strength in innovation.

Overall, the analysis suggests that Oklahoma's aerospace industry is not only growing but is doing so at a rate that exceeds national expectations, with a competitive job gain of 5,626 between 2014 and 2024 across these sectors.

Covid-19 Impacts on the Aerospace Industry

The Covid-19 pandemic was accompanied by a highly significant reduction in air travel, especially in the commercial sector. Additionally, due to pandemic-era restrictions, the aerospace industry was hit by production line disruptions, revenue loss, and the "great resignation" – culminating in a wave of retirements. ¹³ A 2022 study conducted by Ernst & Young on behalf of the Aerospace Industries Association showed the significant rise in attrition following the pandemic.

¹³ Aerospace Industries Association, "AIA's '2021 Facts & Figures' report details the pandemic's impact on the A&D industries," (September 15, 2021). Available at https://www.aia-aerospace.org/news/aias-2021-facts-figures-u-s-aerospace-defense-report-details-the-pandemics-impact-on-the-ad-industries/.



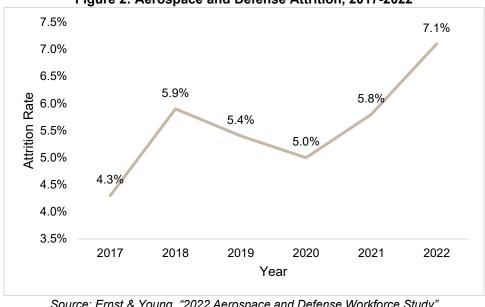


Figure 2: Aerospace and Defense Attrition, 2017-2022

Source: Ernst & Young, "2022 Aerospace and Defense Workforce Study"

These high levels of attrition – combined with the pandemic-caused uncertainty in the industry – has had ripple effects in the years since. More employees have reported a willingness to switch careers, and a highly skilled labor supply is difficult to identify and attract away from more lucrative fields. With the rebound in commercial air travel and aviation activity following the lift of pandemic restrictions, pressure to meet demand is confronted by a less experienced younger workforce, creating significant industry vulnerabilities. Deloitte reported that as of August 2024, global air passenger traffic had increased by 11.6 percent year to date, while total capacity had increased by 10.2 percent. 14 Labor force challenges, in tandem with increased demand, may be ameliorated by the adoption of digital technologies like artificial intelligence (AI), which may be used to supplement a leaner workforce.

Aerospace Engineering Employment and Pay

According to the BLS, 15 aerospace engineers primarily design, develop, and test aircraft, spacecraft, satellites, and missiles. Their duties typically include:

- Coordinate and direct the design, manufacture, and testing of aircraft and aerospace products;
- Assess project proposals in order to determine technical and financial feasibility;
- Determine if proposed projects will result in safe operations that meet the defined goals;
- Evaluate designs to ensure that the products meet engineering principles, customer requirements, and environmental regulations;
- Develop criteria for design methods, quality standards, sustainment after delivery, and completion
- Ensure that projects meet quality standards;
- Inspect malfunctioning or damaged products to identify sources of problems and possible solutions.

¹⁴ Deloitte Research Center for Energy and Industrials, "2025 Aerospace and Defense Industry Outlook," (October 23, 2024). Available at https://www.deloitte.com/us/en/insights/industry/aerospace-defense/aerospace-and-defense-industry-outlook.html.

15 BLS, "Occupational Outlook Handbook: Aerospace Engineers." Available at https://www.bls.gov/ooh/architecture-and-

engineering/aerospace-engineers.htm.



As of 2023, there were 68,900 aerospace engineer jobs in the U.S. There is an anticipated employment change of 4,100 jobs projected annually from 2023 to 2033. This projects to an annual growth rate of 6.0 percent, which is higher than the growth rate for the total U.S. jobs market. A driver behind this projected growth is the increased interest in unmanned aerial systems and the operationalization of AI technologies. These technologies are emerging as pressure mounts on the aerospace industry due to several high-profile aircraft problems, increasing demand for skilled engineers to address and prevent future malfunctions. Employment demand growth may be stymied by industry attrition and subject-matter expert retirements, necessitating states, like Oklahoma, with large, already-developed aerospace industries, to focus on recruiting and retaining that technical workforce.

The largest employers of aerospace engineers are aerospace product and parts manufacturing firms (35 percent), followed by the federal government (15 percent), and engineering service firms (14 percent).

Aerospace Engineering Employment

According to BLS estimates, Oklahoma had 1,550 aerospace engineers as of May 2024 (the most recent available data). At the time of the 2020 review, Oklahoma ranked fifth among states for aerospace engineer employment per 1,000 jobs (1.026 in May 2019). Employment per 1,000 jobs has since fallen to 0.915 in the state, while other states have gotten more competitive. The fifth ranked state is now Kansas, with significantly higher aerospace engineer employment per 1,000 jobs (1.326), exceeding both that of Oklahoma when it was ranked fifth, and Oklahoma today. Oklahoma similarly ranked fifth for location quotient at the time of last review, with a location quotient of 2.38. As of May 2024, the fifth-ranking state for aerospace engineer location quotient is Kansas, with a location quotient of 2.99, which demonstrates the competition between states in the sector.

The top five states previously included Alabama, Washington, Kansas, Maryland, and Oklahoma; today, they are Alabama, New Mexico, Washington, Colorado, and Kansas. New Mexico and Colorado, which border Oklahoma, are emerging economies in the industry. While Oklahoma is still favorably positioned relative nationally in the aerospace sector, it is becoming less competitive compared to other specific states with significant aerospace employment, such as Texas and New Mexico.

The BLS has been reporting data on aerospace engineers for over 25 years. Over the past 20 years, aerospace engineer employment in Oklahoma increased by a compound annual growth rate of just 0.2 percent, however the annual data shows a more complicated picture. Between 2005 and 2008, the year prior to when Oklahoma's incentives began to be offered, employment declined by a CAGR of 25.6 percent. Following implementation of the credits in 2009, in conjunction with the end of the Great Recession, employment has increased by a CAGR of 8.6 percent – with peak employment at 1,690 aerospace engineers in 2020, followed by a steep decrease to 1,200 in 2021 and steady growth since.

¹⁶ BLS Occupational Employment Statistics data for Aerospace Engineers (Standard Occupational Classification code 172011). Estimates do not include self-employed workers.



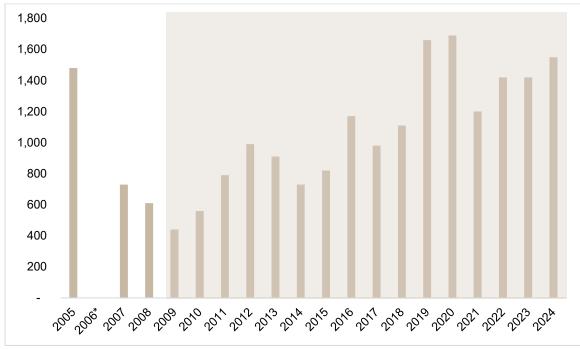


Figure 3: Aerospace Engineering Employees in Oklahoma, 2005-2024

Source: BLS Occupational Employment Statistics data for Aerospace Engineers (SOC code 172011)

* No data reported for 2006

Note: shaded area represents the existence of Oklahoma's incentives

Nationally, between 2005 and 2008, aerospace engineering employment decreased by a CAGR of 16.4 percent; between 2009 and 2024, the national aerospace engineer workforce continued to decline, however by a much more moderate 0.2 percent CAGR. This suggests that Oklahoma's effort to recruit aerospace engineers has been successful in recent history relative to other states, perhaps due in some degree to the existence of its tax incentive programs.

Aerospace Engineering Pay

According to BLS, annual median pay for aerospace engineers was roughly \$109,920 in 2024. While not an apples-to-apples comparison due to cost of living and other economic factors, Oklahoma's average wage for aerospace engineering is low in comparison to both national trends and bordering state trends. In 2024, average annual pay for all aerospace engineers was roughly \$134,830 nationwide and \$136,110 for bordering states for which data was available, indicating the significant competition for talent regionally. Looking at these pay trends over time, Oklahoma has lagged its peers' average pay consistently, with a roughly \$26,000 gap in 2024. Table 3 below presents the Regional Price Parity by state, demonstrating the lower cost of living in Oklahoma compared to some of its neighboring states.

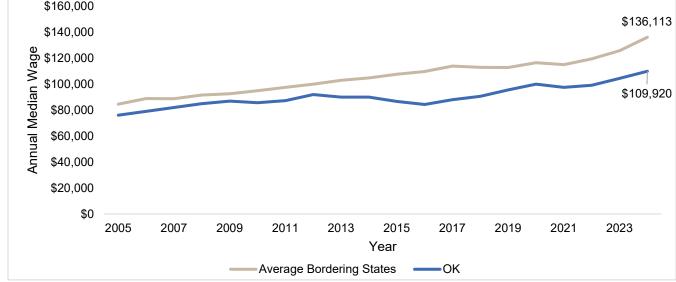


Table 3: Regional Price Parity by State 17

| State | 2023 RPP |
|------------|-------------|
| Arkansas | 86.508 |
| Colorado | 101.382 |
| Kansas | 89.965 |
| Missouri | 91.762 |
| New Mexico | 90.386 |
| Oklahoma | 88.286 |
| Texas | 97.175 |

While this does not fully make up for the pay gap, it does indicate that it is more narrow than it appears on a nominal basis.

Figure 4: Aerospace Engineer Pay, Oklahoma vs. Surrounding States \$160,000



Source: BLS Occupational Employment Statistics data for Aerospace Engineers (SOC code 172011)

Oklahoma's bordering states saw an annual median wage growth rate of 2.5 percent over the past twenty years, compared to the Oklahoma aerospace engineer annual median wage growth of 2.0 percent and overall annual median wage growth of 3.0 percent. This, combined with the nominally lower wages than its regional competitors, places Oklahoma at a disadvantage in terms of attracting and retaining key talent. Despite trends that suggest that Oklahoma firms have had some success in recruiting aerospace employees, they have not kept pace with the compensation increases seen in other occupations within Oklahoma as well as with regional aerospace engineer compensation trends.

¹⁷ Federal Research Bank of St. Louis, Regional Price Parities by State.



Industry Background Summary

Oklahoma's aerospace and aviation industry continues to be a cornerstone of the state's economy, with the aerospace and defense sector quickly growing. In 2024 alone, over \$146 million in new capital investment was secured, driven by 25 new or expanding businesses and resulting in more than 1,000 new jobs. However, the industry faces significant workforce challenges, particularly in recruiting skilled technical labor and engineers. Competitive compensation elsewhere has made it difficult for Oklahoma firms to attract top talent, and attrition remains a concern, especially with nearly a quarter of the workforce over age 55.

Despite a growing demand for aerospace engineers, fueled by advancements in unmanned aerial systems and AI technologies, Oklahoma's engineering degree output has not kept pace. While STEM degrees overall have increased, engineering degrees peaked in 2018 and declined through 2024. Employment of aerospace engineers in Oklahoma saw steady growth following the introduction of the tax credit program in 2009, peaking in 2020 before beginning to decline. Wage growth for aerospace engineers in Oklahoma has also trailed neighboring states and national levels, potentially hindering long-term talent retention. As the industry evolves and faces mounting technical and safety demands, it will be crucial for Oklahoma to address workforce gaps in order to maintain its position in the aerospace industry.



Incentive Usage and Administration



Incentive Characteristics

In the beginning of the 21st century, Oklahoma's aerospace industry increasingly encountered a lack of qualified applicants for engineering positions, posing a significant barrier to entry and an impediment to growth. In response to this issue, effective January 1, 2009, the State enacted a package of tax credits designed to "address the critical shortage of engineering and technical talent facing the Oklahoma aerospace industry," including: 18

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| Tax Credit for Aerospace Employees ("Employee Credit") | Qualified employees in the aerospace sector can receive income tax credits of up to \$5,000 per year for up to five years. Unused credits can be carried forward for five years but are non-refundable. |

Source: 68 O.S. §§ 2357.302-304

It should be noted that the focus of this evaluation is on (1) the credit for qualified employers for compensation paid to qualified employees and (2) the credit for qualified employees. During initial discussions with the Tax Commission, it was determined that a third credit, for tuition reimbursement for aerospace employers, is not in use. For that reason, the project team suggested – and the Commission approved – exempting it from the evaluation process so that the focus of the analysis can be on those programs which are actively in use by the state's aerospace engineers and employers.

Since the incentive's previous review in 2020, Oklahoma enacted SB 893 in 2021, effective for tax year 2021. This bill expanded the definition of qualified employees under the incentive program to include those who are licensed as a Professional Engineer by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors, pursuant to 59 O.S. §475.15. The definition of a qualified program was also expanded under this bill to mean a program at an institution that includes a graduate or undergraduate program accredited by ABET. Both the undergraduate and graduate programs of the same discipline of engineering at an institution will be considered part of a qualified program if either is accredited.

Additionally, HB 4072 was enacted in 2024, clarifying that the 'aerospace sector' means any private or public organization located in Oklahoma, and provides that for tax year 2024 and subsequent tax years, "qualified employee" will not exclude any person who previously qualified for and established the credit and becomes employed by a different qualified employer, or who establishes the credit for the first time and becomes employed by a different qualified employer in subsequent years, provided a person in either case has not claimed the credit for more than five years. The legislation further allows a qualified employee to claim the credit for five non-consecutive tax years.

¹⁸ Per HB 3229



Employer Tax Credit

Qualifications

Qualified employers are private or public organizations¹⁹ whose principal business activity involves the aerospace sector, which refers to those engaged in the manufacture of aerospace or defense hardware or software, aerospace maintenance, aerospace repair and overhaul, supply of parts to the aerospace industry, provision of services and support relating to the aerospace industry, research and development of aerospace technology and systems, and the education and training of aerospace personnel.

The compensation paid to qualified employees refers to wages and salaries, and does not include employer-provided retirement, medical or healthcare benefits, reimbursement for travel, meals, lodging or any other expenses.

Historic Use of the Tax Credits

As shown in the following table, the number of employer returns claiming the credit has decreased since 2020 by a CAGR of 5.3 percent, the amount used to reduce tax liability, representing foregone revenue to the State, has decreased by 7.8 percent, and the amount used to reduce tax liability per return has decreased, more modestly, by 2.6 percent. On average between 2020 and 2022, 53 returns were filed annually, compared to an average of 35 returns per year between 2013 and 2017, the period evaluated in the previous incentive analysis. Despite recent reductions in incentive usage since 2020, it appears that the program is growing in participation when examining a wider range of credit years.

Table 4: Usage of Tax Credits for Aerospace Employers, 2020-2022

| Tax Year | Number of Returns | Total Amount Claimed | Estimated Employees Claimed* | Amount Used to Reduce Tax Liability | Average Amount Used to Reduce Tax Liability / Return |
|-------------|-------------------------|----------------------------|------------------------------------|--|--|
| 2020 | 58 | \$621,639 | 60-120 | \$291,056 | \$5,018 |
| 2021 | 48 | \$464,620 | 50-100 | \$363,478 | \$7,572 |
| 2022 | 52 | \$440,378 | 40-90 | \$247,654 | \$4,763 |
| Avg. | 53 | \$508,879 | 50-100 | \$300,729 | \$5,710 |

Source: Oklahoma Tax Commission; PFM analysis

The biggest users of the employer credit are typically companies with a large presence in Oklahoma, such as the Boeing Company and NORDAM (an aerospace component manufacturing and repair company). While the government sector accounts for much of the aerospace employment within the State (e.g., Tinker Air Force Base), these entities are not required to pay income tax and therefore do not use or apply for the credit. Further, from conversations with key industry stakeholders, one large firm did mention that they only minimally took advantage of the employer tax credit program due to the availability (as well as exclusivity, from a layering perspective) of the Quality Jobs tax credits.

The State does not track employee activity following the five-year credit period, so it is not possible to determine the extent to which the tax credits retain employees in the state long-term, or whether employees leave Oklahoma after claiming credits. However, while employee/talent retention is an important element of the effort to close the skills gap in Oklahoma, tracking this activity is probably not likely or feasible.

^{*} Calculation uses the average wage per OES data referenced in the preceding chapter; ranges are based on 10% credit for in-state degree and 5% for out-of-state degree. Estimates have been rounded.

¹⁹ This includes sole proprietors, general partnerships, limited partnerships, limited liability companies, corporations, other legally recognized business entities or public entities.



Employee Tax Credit

Qualifications

A qualified employee must have been awarded an undergraduate or graduate degree from a qualified program by an accredited institution. The program must be accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). The employee must not have been employed in the aerospace sector in Oklahoma immediately preceding employment with the employer.

The statutory definition does not exclude any person who was employed in the aerospace sector, but not as a full-time engineer, prior to being awarded an undergraduate or graduate degree from a qualified program by an institution or any person who has been awarded an undergraduate or graduate degree from a qualified program by an institution and is employed by a professional staffing company and assigned to work in the aerospace sector in Oklahoma.

In April 2025, SB 287 extended the sunset data of both programs from tax year 2031 to tax year 2032.

Historic Use of the Credit

As shown in the following table, the incentive's use has remained relatively consistent in recent years – both in terms of the number of returns (CAGR of -0.4 percent) and the amount used to reduce tax liability (CAGR of 0.8 percent). The average amount used to reduce tax liability has increased slightly to \$3,365 in 2022, representing a CAGR of 1.2 percent.

Table 5: Usage of Tax Credits for Aerospace Employees, 2020-2022

| Tax Year | Number of Returns | Unused Credit Carried Over | Credit Established, Current Tax Year | Total Claimed | Amount Used to Reduce Tax Liability | Amount Used to Reduce Tax Liability / Return |
|-------------|-------------------------|----------------------------------|--|------------------|-------------------------------------|--|
| 2020 | 2,742 | \$9,717,622 | \$11,369,352 | \$21,086,974 | \$9,010,406 | \$3,286 |
| 2021 | 2,751 | \$10,289,892 | \$11,291,697 | \$21,581,589 | \$9,589,050 | \$3,486 |
| 2022 | 2,722 | \$9,847,222 | \$11,069,584 | \$20,916,806 | \$9,160,707 | \$3,365 |
| Avg. | 2,738 | \$9,951,579 | \$11,243,544 | \$21,195,123 | \$9,253,388 | \$3,379 |

Source: Oklahoma Tax Commission

Notably, the number of returns in the preceding table exceeds the estimated number of employees claimed by employers in Table 4. As referenced previously, employment of aerospace engineers by the government sector may account for some of this, as well as employers opting for other tax credit programs offered by the State. Additionally, while the employee credits can be carried forward, the employer credits cannot.

Several large employers in the State noted that the employee tax credit as an advantageous program that many of their employees took advantage of. Furthermore, one noted that, especially in STEM fields, individuals have lots of options for careers, so anything the State can do to promote aerospace engineering is valuable at enabling Oklahoma to remain competitive.

Incentive Administration

The OTC is responsible for the administration of these incentives, which is relatively straight-forward and entails two key components: employer/employee application for credit, and the OTC's verification and acceptance of claims. For intake and reporting purposes, this information comes from income tax returns along with either Form 564 or Form 565. These are summarized in the following.



Application for Credit

To claim the credits, qualified employers must fill out and submit Form 565 (Credit for Employers in the Aerospace Sector); qualified employees must fill out and submit Form 564 (Credit for Employees in the Aerospace Sector). These forms collect the following information:

Table 6: Tax Credit Application Requirements

| Credits for Employers in the Aerospace Sector (Form 565 Part 2) | Credit for Employees in the Aerospace Sector (Form 564) |
|--|---|
| Name of qualified employer and federal employer identification number; Business type; Itemized credit computation, including the name of qualified employee(s), social security number, date of employment in Oklahoma, name of institution, compensation paid and credit amount; Total credit for compensation paid. | Name; Social Security Number; Employer name and federal employer identification number; Date of employment in Oklahoma; College or university name and location; name of ABET-accredited program Date of graduation; Credit computation, including credit for employment during current tax year, unused carryover credit and total credit available. |

Source: OTC Forms 564 and 565

All claimants must also fill out the applicable fields of Form 511CR (Other Credits), including (1) unused credit carried over from prior year(s) (not applicable for employers), (2) credit established during the current tax year, and (3) total available credit (the sum of 1 and 2).

OTC Verification and Acceptance of Claims

When the OTC receives the required forms, they review them for accuracy and completeness. According to OTC representatives, typically, if an employee's application is denied, it is due to having a degree but not the "right one." This is discussed in the ABET Accreditation Requirement section that follows.

Administrative Issues

ABET Accreditation Requirement

Recent changes to the definitions of "qualified employee" and "qualified program" have sought to reduce or eliminate confusion around eligibility for the employee credit, however the confusion persists, with a total of 5.7 percent of audited credits issued leading to claw backs of incentive dollars.

As mentioned previously; to qualify for the employee credit, an employee must have been awarded an undergraduate or graduate degree from a qualified program that is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). According to ABET data, there are 786 EAC-accredited institutions worldwide, 590 of which are in the United States. ²⁰ However, there are many programs offered that are not ABET accredited, or that are at ABET accredited institutions, but are not accredited programs.

Eliaibility Issues

In recent years, concerns have emerged around the employee tax credit program in Oklahoma, particularly regarding eligibility tied to ABET-accredited degrees and programs. Some individuals who were initially

²⁰ Accreditation Board for Engineering and Technology, "Accredited Programs". Available at https://amspub.abet.org/aps/category-search?commissions=3&countries=US.



approved later discovered they did not meet the necessary qualifications, following audits conducted by the OTC. These audits, part of OTC's routine compliance reviews, have revealed cases where credits may have been mistakenly awarded.

Data Availability Issues

Efforts to evaluate the effectiveness of these incentives have been hampered by limited data availability. Although the project team has requested key metrics such as degree counts by institution type and payroll data, the OTC reported that this information was not available.

Based on a review of Forms 564 and 565, the project team's understanding is that the OTC would have access to the requested information. Form 564 collects the name and location of the college or university, the name of the qualified program and the employee's graduation date. Form 565 collects the total compensation paid to employees for which an employer is claiming a credit.

Alignment with Incentive Best Practices

The Aerospace Employer and Employee Tax Credits are well-aligned with the identified best practices for incentive design. The programs are industry-specific, have requirements for claimants, leverage a varying degree of private capital based on employment generated, and aim to create and sustain qualified employment in an industry that otherwise faces barriers to growth. However, as noted above, the eligibility requirements are somewhat opaque to users and while there is a cap on the value of awards on a perrecipient basis, the program has no overall annual cap.

Figure 6: Best Practice Implementation in Incentive Design

| Best Practice | Aerospace |
|---|-----------|
| Targeted to specific companies or industries | • |
| Discretionary | • |
| Leverage significant private capital | |
| Limited duration / front-load benefits to 1-3 years | 0 |
| State / Local conditions considered | • |
| Overcoming practical barriers to growth | • |
| Transparency | |
| Accountability | 0 |
| Cap on value of awards | 0 |
| Simple and understandable | • |
| Sunset on program duration | • |

Legend: Dark circle = full adoption, Light circle = partial adoption, Empty circle = limited adoption



Economic and Fiscal Impact



Fiscal Impact

From a fiscal perspective, State tax revenue from this activity exceeds the incentive credits claimed. The following table illustrates the economic impact benefits. For analysis purposes, the table compares total impacts with total estimated tax revenue and total claimed credit. These comparisons are provided only at the total impact level for each year and not the component elements, because there are no corresponding credits at the component levels. In the most recent tax year for which data is available, 2022, the 2,722 employees claiming \$20.9 million in the credit were associated with \$486.2 million in contribution to the Gross State Product and \$25.8 million in estimated State tax revenues.

Economic Impact

The total economic impact is assessed based on the output generated by jobs that are supported through the aerospace employee incentive. It is assumed that the jobs claimed under the incentive program represent the employment that would not have been created or retained in the absence of the incentive. To ascertain total economic impact, the project team used the input-output IMPLAN software.²¹

The total economic activity associated with the employment attribute to the incentive exceeds the total cost of the incentive, measured by the amount claimed, by a significant margin on an annual basis. The economic output per \$1 claimed ranges from \$67 to \$76 over the period from tax year 2020 through tax year 2022. In tax year 2022, the most recent year for which data was available, the 2,722 claimants of the Aerospace Employee tax credit were associated with over \$1.5 billion in economic output. Indirect and induced activity supported an additional 1,262 jobs, for a direct to indirect jobs ratio just above 2:1. This is in contrast to the less than 1:1 ratio exhibited in the years reviewed in the prior evaluation, indicating that previously, the jobs supported through the credit program had a greater impact in terms of supporting additional indirect and induced employment. Much of this change in relationship can be attributed to the impact of the COVID-19 pandemic on the jobs market.

The figures on the total economic output and State tax revenues associated with program claimants are evaluated on the aggregate level, however it would be inaccurate to attribute all of the employees claiming the credit to the credit itself. Much of this employment would have already located in the State, therefore only some unknown portion of claimants are directly attributable to the credit program, meaning that they would not have located in Oklahoma and/or conferred the requisite degree *but for* the availability of the program. 'But for' testing seeks to determine whether some or all economic activity would have occurred even without the existence of the incentive, and it is critical for understanding how much of the program's benefit should be attributed to the incentive. While a wealth of literature exists on 'but for' testing, it is both difficult to quantify due to the exogenous nature of career choices for employees, and it is used inconsistently in incentive evaluations. An alternative approach is conducting a breakeven analysis. The breakeven analysis calculates the total level of benefits of the program that would have to be attributable to the incentive in order for the State to 'break even' on their investment, as represented by the amount claimed.

In order for the State tax revenues associated with the program to equal or exceed the claims associated with the program, at least 81 percent of claimants must be directly attributable to the program. This means that up to 19 percent of activity could have occurred without the credit for the credit to still generate a positive return on investment to the State.

The \$1.5 billion in economic output associated with the aerospace employee tax credit in tax year 2022 was attributable to more than 450 industries (among the 536 tracked in IMPLAN's input/output model),

²¹ Additional discussion of IMPLAN is provided in Appendix B.



demonstrating how the incentives ripple throughout the state's economy and create significant benefits beyond the industry they are targeting. While the aerospace industry accounts for just over 80 percent of the economic activity, other key sectors benefitting from the activity associated with the program include real estate for employee housing, retail and wholesale sellers, and medical providers and institutions.

Despite lower indirect and induced impacts associated with the employment supported through the credit program, the estimated tax revenues to the State of Oklahoma from activity supported by the credit program exceeded the total amount claimed each year under the credit program during tax year 2020-2022. In tax year 2022, the most recent year for which data is available, for every \$1.00 claimed under the aerospace employee tax credit program, \$1.23 of State taxes were generated. These tax revenues are estimated using the long-term history ratio of Oklahoma's gross state tax collections, as published by the Oklahoma Tax Commission, to the Gross State Product. Additional detail is provided in the appendix.

Ultimately, the Aerospace Employer and Employee Tax Credits provide significant economic benefits to the Oklahoma economy well beyond just the aerospace industry they are targeted at. From a fiscal perspective, the programs generate a positive ROI to the state, with State tax revenue associated with program activity exceeding the credits claimed. The following table illustrates both the economic and fiscal benefits of the program based on data for tax years 2020 through 2022.

Table 7: Economic Impacts per Year, FY2020-FY2022

| Year | Effect | Output | Value Added | Labor Income | Jobs | Estimated OK Tax Revenue | Total Claimed | Ratio: Output/ Claims | Ratio: Revenue/ Claims |
|------|-------------------|-----------------|---------------|-----------------|--------|--------------------------------|------------------|-----------------------------|------------------------------|
| | Direct Effect | \$1,272,296,476 | \$284,412,794 | \$368,897,133 | 2,742 | | | | |
| | Indirect Effect | \$153,186,166 | \$70,147,198 | \$44,547,379 | 536 | | | | |
| 2020 | Induced Effect | \$172,770,195 | \$103,700,313 | \$48,679,322 | 887 | | | | |
| | Total Effect | \$1,598,252,837 | \$458,260,304 | \$462,123,834 | 4,165 | \$24,299,683 | \$21,086,974 | \$75.79 | \$1.15 |
| | Direct Effect | \$1,159,164,722 | \$312,230,392 | \$399,056,348 | 2,751 | | | | |
| | Indirect Effect | \$112,105,178 | \$48,366,256 | \$30,215,697 | 386 | | | | |
| 2021 | Induced Effect | \$175,617,562 | \$101,813,704 | \$48,103,275 | 873 | | | | |
| | Total Effect | \$1,446,887,461 | \$462,410,351 | \$477,375,321 | 4,010 | \$24,519,743 | \$21,581,589 | \$67.04 | \$1.14 |
| | Direct Effect | \$1,229,405,059 | \$340,965,574 | \$396,565,164 | 2,722 | | | | |
| | Indirect Effect | \$109,650,887 | \$46,946,662 | \$28,385,559 | 386.37 | | | | |
| 2022 | Induced Effect | \$171,909,405 | \$98,305,168 | \$46,118,780 | 875.68 | | | | |
| | Total Effect | \$1,510,965,351 | \$486,217,404 | \$471,069,503 | 3,984 | \$25,782,134 | \$20,916,806 | \$72.24 | \$1.23 |



Incentive Benchmarking



Benchmarking Peer State Programs

For evaluation purposes, benchmarking provides information related to how peer states use and evaluate similar incentives. At the outset, it should be understood that no states are 'perfect peers' – there will be multiple differences in economic, demographic and political factors that will have to be considered in any analysis; likewise, it is exceedingly rare that any two state incentive programs will be exactly the same. These benchmarking realities must be taken into consideration when making comparisons – and, for the sake of brevity, the report will not continually re-make this point throughout the discussion.

The process of creating a comparison group for incentives typically begins with bordering states. This is generally the starting point, because proximity often leads states to compete for the same regional businesses or business/industry investments. Second, neighboring states often (but not always) have similar economic, demographic or political structures that lend themselves to comparison.

In the case of the Aerospace Employer and Employee tax credits, comparable state programs – incentives which focus on recruiting aerospace industry talent – or more generally, recruiting for difficult-to-fill positions – are rare. Tuition reimbursement programs like that offered under the Aerospace Employer Tax Credit are similarly uncommon, especially for targeted industries.

Comparable incentive programs can be broken into three general categories: those aimed at recruiting employees into hard-to-fill position, those providing a credit to employers who offer tuition reimbursement, and the least uncommon of the three, those aimed at recruiting and providing tuition reimbursement for employees in a specific industry.

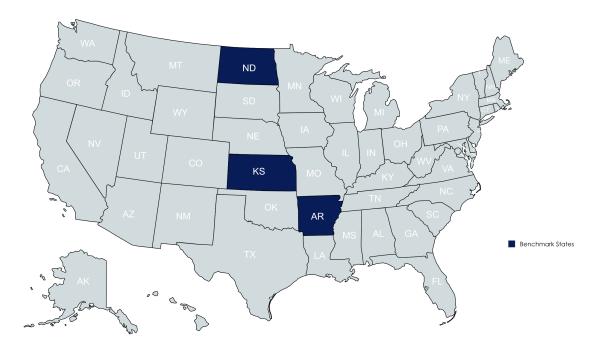


Figure 5: Map of Peer Program States

Source: MapChart

²² The primary instances of exactly alike state incentive programs occur when states choose to 'piggyback' onto federal programs.



North Dakota has a program targeting workforce recruitment for hard-to-fill positions, known as the Workforce Recruitment Credit.²³ The program similarly provides a credit based on the compensation paid to eligible employees, however, unlike Oklahoma's programs, North Dakota's program is not targeted at a specific industry, nor does the credit amount vary based on the location of the institution that the employee graduated from.

Kansas has a suite of aviation tax credit programs similar to Oklahoma's programs, known as the Employer Hiring Incentive and Tuition Reimbursement.²⁴ This program includes both the employer- and employee-targeted credits specifically in the aviation industry, including tuition reimbursement credits and credits based on compensation paid for aviation employers, and income tax credits for qualified aviation employees.

The below table synthesizes Kansas' program, as well as Arkansas' program targeting tuition reimbursement for employees pursuing in-state degrees:

Table 7: State Incentives Related to Recruitment and Tuition Reimbursement

| State | Program | Description |
|----------|--|--|
| Kansas | Employer Hiring Incentive and Tuition Reimbursement | Qualified aviation employees may receive an income tax credit up to \$5,000 per year. Employers may receive a non-refundable credit for 10 percent of the compensation paid to each new qualified employee and may be eligible for an additional up to 50 percent of reimbursed tuition. |
| Arkansas | Tuition Reimbursement Tax Credit ²⁵ | Eligible companies may claim an income tax credit equal to 30 percent of tuition, books, and fees reimbursed to a full-time permanent employee if the employee has completed one semester at an eligible education institution located in the State. |

Minnesota has a current bill pending, S.F. 519, to create Aerospace and Aviation Credits, which include individual income tax employee credits, an employer tuition reimbursement credit, and employer compensation credit. ²⁶ Though the program has not been enacted, it highlights an additional state's pursuit specifically of enhancing their aerospace industry and labor market. The program has the same three elements as Kansas' as well as those offered between the two programs in Oklahoma.

²³ North Dakota Tax Commission, Income Tax Exemptions & Credits. Accessed electronically at https://www.tax.nd.gov/tax-exemptions-credits/. Credits. Accessed electronically at https://www.tax.nd.gov/tax-exemptions-credits/.

²⁴ Kansas Commerce, Kansas Aviation Tax Credits – Employer Hiring and Tuition Reimbursement. Accessed electronically at https://www.kansascommerce.gov/businesses/kansas-aviation-tax-credits/.

²⁵ Arkansas Economic Development Commission, Exemptions/Reductions. Accessed electronically at https://www.arkansasedc.com/why-arkansas/business-climate/incentives-old/pages/exemptions-reductions#:~:text=Tuition%20Reimbursement,Arkansas%20post%2Dsecondary%20educational%20institution.

²⁶ Minnesota Legislature Office of the Revisor of Statutes, SF 519, accessed electronically at https://www.revisor.mn.gov/bills/text.php?number=SF519&version=0&session=ls94&session_year=2025&session_number=0.



Appendix



Appendix A: Incentive Statute

§68-2357.301. Definitions.

As used in Sections 2357.301 through 2357.304 of this title:

- 1. "Aerospace sector" means a private or public organization located in this state and engaged in the manufacture of aerospace or defense hardware or software, aerospace maintenance, aerospace repair and overhaul, supply of parts to the aerospace industry, provision of services and support relating to the aerospace industry, research and development of aerospace technology and systems and the education and training of aerospace personnel;
- 2. "Compensation" means payments in the form of contract labor for which the payor is required to provide a Form 1099 to the person paid, wages subject to withholding tax paid to a part-time employee or full-time employee or salary or other remuneration. Compensation shall not include employer-provided retirement, medical or health-care benefits, reimbursement for travel, meals, lodging or any other expense;
- 3. "Institution" means an institution within The Oklahoma State System of Higher Education or any other public or private college or university that is accredited by a national accrediting body;
- 4. "Qualified employer" means a sole proprietor, general partnership, limited partnership, limited liability company, corporation, other legally recognized business entity or public entity whose principal business activity involves the aerospace sector;
- 5. "Qualified employee" means any person, regardless of the date of hire, employed in this state by or contracting in this state with a qualified employer on or after January 1, 2009, who was not employed in the aerospace sector in this state immediately preceding employment or contracting with a qualified employer, and who has been either:
 - A. awarded an undergraduate or graduate degree from a qualified program by an institution, or
 - B. licensed as a Professional Engineer by the State Board of Licensure for Professional Engineers and Land Surveyors pursuant to Section 475.15 of Title 59 of the Oklahoma Statutes.

Provided, the definition shall not be interpreted to exclude any person who was employed in the aerospace sector, but not as a full-time engineer, prior to being awarded an undergraduate or graduate degree from a qualified program by an institution or any person who has been awarded an undergraduate or graduate degree from a qualified program by an institution and is employed by a professional staffing company and assigned to work in the aerospace sector in this state.

Beginning on or after January 1, 2024, the definition shall also not be interpreted to exclude any person (1) who previously qualified and established the credit against the tax imposed pursuant to Section 2355 of this title and becomes employed by a different qualified employer, or (2) who establishes the credit against the tax imposed pursuant to Section 2355 of this title for the first time and becomes employed by a different qualified employer in subsequent years, provided a person in either case has not claimed the credit for the lifetime maximum of five (5) years;

- 6. "Qualified program" means a program at an institution that includes a graduate or undergraduate program that has been accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) and that awards an undergraduate or graduate degree. Both the undergraduate and graduate programs of the same discipline of engineering at an institution shall be part of the qualified program if either program is ABET accredited; and
- 7. "Tuition" means the average annual amount paid by a qualified employee for enrollment and instruction in a qualified program. Tuition shall not include the cost of books, fees or room and board.

Added by Laws 2008, c. 417, § 1, eff. Jan. 1, 2009. Amended by Laws 2014, c. 30, § 1, eff. Nov. 1, 2014; Laws 2021, c. 579, § 1, eff. Nov. 1, 2021; Laws 2024, c. 313, § 1, eff. Nov. 1, 2024.

§68-2357.302. Credit for employee tuition reimbursement.

A. Except as provided in subsection F of this section, for taxable years beginning after December 31, 2008, and ending before January 1, 2026, a qualified employer shall be allowed a credit against the tax imposed pursuant to Section 2355 of this title for tuition reimbursed to a qualified employee.



- B. The credit authorized by subsection A of this section may be claimed only if the qualified employee has been awarded an undergraduate or graduate degree within one (1) year of commencing employment with the qualified employer.
- C. The credit authorized by subsection A of this section shall be in the amount of fifty percent (50%) of the tuition reimbursed to a qualified employee for the first through fourth years of employment. In no event shall this credit exceed fifty percent (50%) of the average annual amount paid by a qualified employee for enrollment and instruction in a qualified program at a public institution in Oklahoma.
- D. The credit authorized by subsection A of this section shall not be used to reduce the tax liability of the qualified employer to less than zero (0).
- E. No credit authorized by this section shall be claimed after the fourth year of employment.
- F. No credit otherwise authorized by the provisions of this section may be claimed for any event, transaction, investment, expenditure or other act occurring on or after July 1, 2010, for which the credit would otherwise be allowable. The provisions of this subsection shall cease to be operative on July 1, 2011. Beginning July 1, 2011, the credit authorized by this section may be claimed for any event, transaction, investment, expenditure or other act occurring on or after July 1, 2011, according to the provisions of this section.

Added by Laws 2008, c. 417, § 2, eff. Jan. 1, 2009. Amended by Laws 2010, c. 327, § 26, eff. July 1, 2010; Laws 2011, c. 5, § 1; Laws 2014, c. 30, § 2, eff. Nov. 1, 2014; Laws 2017, c. 153, § 1, eff. Nov. 1, 2017.

§68-2357.303. Credit for compensation paid to employees.

A. Except as provided in subsection F of this section, for taxable years beginning after December 31, 2008, and ending before January 1, 2026, a qualified employer shall be allowed a credit against the tax imposed pursuant to Section 2355 of this title for compensation paid to a qualified employee.

- B. The credit authorized by subsection A of this section shall be in the amount of:
- 1. Ten percent (10%) of the compensation paid for the first through fifth years of employment in the aerospace sector if the qualified employee graduated from an institution located in this state; or
- 2. Five percent (5%) of the compensation paid for the first through fifth years of employment in the aerospace sector if the qualified employee graduated from an institution located outside this state.
- C. The credit authorized by this section shall not exceed Twelve Thousand Five Hundred Dollars (\$12,500.00) for each qualified employee annually.
- D. The credit authorized by this section shall not be used to reduce the tax liability of the qualified employer to less than zero (0).
- E. No credit authorized pursuant to this section shall be claimed after the fifth year of employment.
- F. No credit otherwise authorized by the provisions of this section may be claimed for any event, transaction, investment, expenditure or other act occurring on or after July 1, 2010, for which the credit would otherwise be allowable. The provisions of this subsection shall cease to be operative on July 1, 2011. Beginning July 1, 2011, the credit authorized by this section may be claimed for any event, transaction, investment, expenditure or other act occurring on or after July 1, 2011, according to the provisions of this section.

Added by Laws 2008, c. 417, § 3, eff. Jan. 1, 2009. Amended by Laws 2010, c. 327, § 27, eff. July 1, 2010; Laws 2011, c. 5, § 2; Laws 2014, c. 30, § 3, eff. Nov. 1, 2014; Laws 2017, c. 153, § 2, eff. Nov. 1, 2017.

§68-2357.304. Credit for employees.

A. Except as provided in subsection D of this section, for taxable years beginning after December 31, 2008, and ending before January 1, 2026, a qualified employee shall be allowed a credit against the tax imposed pursuant to Section 2355 of this title of up to Five Thousand Dollars (\$5,000.00) per tax year for a period of time not to exceed five (5) years during the lifetime of the qualified employee. This credit may be claimed in nonconsecutive tax years.

- B. The credit authorized by this section shall not be used to reduce the tax liability of the taxpayer to less than zero (0).
- C. Any credit claimed, but not used, may be carried over, in order, to each of the five (5) subsequent taxable years.



D. No credit otherwise authorized by the provisions of this section may be claimed for any event, transaction, investment, expenditure or other act occurring on or after July 1, 2010, for which the credit would otherwise be allowable. The provisions of this subsection shall cease to be operative on July 1, 2011. Beginning July 1, 2011, the credit authorized by this section may be claimed for any event, transaction, investment, expenditure or other act occurring on or after July 1, 2011, according to the provisions of this section.

Added by Laws 2008, c. 417, \S 4, eff. Jan. 1, 2009. Amended by Laws 2010, c. 327, \S 28, eff. July 1, 2010; Laws 2011, c. 5, \S 3; Laws 2014, c. 30, \S 4, eff. Nov. 1, 2014; Laws 2017, c. 153, \S 3, eff. Nov. 1, 2017; Laws 2024, c. 313, \S 2, eff. Nov. 1, 2024.



Appendix B: IMPLAN Economic Impact Methodology

The economic impact methodology utilized to determine the multiplier effects is IMPLAN, a proprietary model; PFM has obtained a license for use of the IMPLAN model for these evaluations.

IMPLAN's Social Accounting Matrices (SAMs) capture the actual dollar amounts of all business transactions taking place in a regional economy as reported each year by businesses and governmental agencies. SAM accounts are a better measure of economic flow than traditional input-output accounts because they include "non-market" transactions. Examples of these transactions would be taxes and unemployment benefits.

Multipliers

SAMs can be constructed to show the effects of a given change on the economy of interest. These are called Multiplier Models. Multiplier Models study the impacts of a user-specified change in the chosen economy for 440 different industries. Because the Multiplier Models are built directly from the region- specific SAMs, they will reflect the region's unique structure and trade situation.

Multiplier Models are the framework for building impact analysis questions. Derived mathematically, these models estimate the magnitude and distribution of economic impacts, and measure three types of effects which are displayed in the final report. These are the direct, indirect, and induced changes within the economy.

- Direct effects are determined by the Event as defined by the user (i.e., a \$10 million order is a \$10 million direct effect).
- The indirect effects are determined by the amount of the direct effect spent within the study region on supplies, services, labor, and taxes.
- Finally, the induced effect measures the money that is re-spent in the study area as a result of spending from the indirect effect.

Each of these steps recognizes an important leakage from the economic study region spent on purchases outside of the defined area. Eventually, these leakages will stop the cycle.

Appendix B: Economic Impacts by Sector

| Sector Description | Employment | Output |
|--|------------|-----------------|
| Aircraft manufacturing | 2,633 | \$1,232,440,578 |
| Wholesale - Machinery, equipment, and supplies | 34 | \$12,091,125 |
| Wholesale - Household appliances and electrical and electronic goods | 27 | \$22,094,138 |
| Other aircraft parts and auxiliary equipment manufacturing | 16 | \$4,220,157 |
| Management of companies and enterprises | 18 | \$5,106,801 |
| Truck transportation | 17 | \$5,962,514 |
| Wholesale - Other durable goods merchant wholesalers | 14 | \$5,770,432 |
| Data processing, hosting, and related services | 13 | \$5,044,814 |
| Employment services | 21 | \$2,837,000 |
| Warehousing and storage | 16 | \$1,339,749 |



| Sector Description Monetary authorities and depository credit | Employment | Output |
|---|------------|-------------|
| intermediation | 19 | \$6,442,395 |
| Couriers and messengers | 9 | \$1,287,885 |
| Fabricated structural metal manufacturing | 6 | \$2,848,272 |
| Custom computer programming services | 5 | \$959,493 |
| Computer systems design services | 5 | \$1,471,198 |
| Other computer related services, including facilities management | 5 | \$1,408,343 |
| Accounting, tax preparation, bookkeeping, and payroll services | 10 | \$1,561,101 |
| Aircraft engine and engine parts manufacturing | 4 | \$2,051,657 |
| Retail - Motor vehicle and parts dealers | 21 | \$4,687,455 |
| Valve and fittings, other than plumbing, manufacturing | 4 | \$1,599,828 |
| Legal services | 9 | \$2,435,539 |
| Full-service restaurants | 52 | \$5,039,013 |
| Business support services | 6 | \$629,066 |
| Wholesale - Professional and commercial equipment and supplies | 6 | \$1,797,839 |
| Wholesale - Wholesale electronic markets and agents and brokers | 4 | \$438,967 |
| Postal service | 5 | \$597,235 |
| Services to buildings | 6 | \$689,106 |
| Iron, steel pipe and tube manufacturing from purchased steel | 2 | \$2,193,149 |
| Management consulting services | 4 | \$739,212 |
| Advertising, public relations, and related services | 3 | \$787,119 |
| Other support services | 3 | \$749,851 |
| Wholesale - Other nondurable goods merchant wholesalers | 6 | \$2,606,291 |
| Scenic and sightseeing transportation and support activities for transportation | 3 | \$361,799 |
| Investigation and security services | 4 | \$368,026 |
| Machine shops | 2 | \$360,327 |
| Other local government enterprises | 11 | \$5,372,557 |
| Wired telecommunications carriers | 3 | \$2,311,129 |
| Landscape and horticultural services | 4 | \$639,297 |
| Commercial and industrial machinery and equipment repair and maintenance | 2 | \$567,442 |
| Software publishers | 2 | \$1,665,470 |
| Spring and wire product manufacturing | 1 | \$542,362 |
| Wholesale - Motor vehicle and motor vehicle parts and supplies | 2 | \$1,187,983 |
| Nondepository credit intermediation and related activities | 5 | \$1,671,940 |
| Limited-service restaurants | 51 | \$5,917,370 |



| Sector Description | Employment | Output |
|---|------------|-------------|
| Office administrative services | 2 | \$317,638 |
| All other food and drinking places | 20 | \$1,684,161 |
| Other real estate | 4 | \$5,559,204 |
| Insurance agencies, brokerages, and related activities | 4 | \$1,439,108 |
| Architectural, engineering, and related services | 2 | \$483,679 |
| Hotels and motels, including casino hotels | 11 | \$1,695,170 |
| lectric power transmission and distribution | 2 | \$3,643,315 |
| Iron and steel mills and ferroalloy manufacturing | 1 | \$1,879,571 |
| aintenance and repair construction of nonresidential structures | 2 | \$411,907 |
| Other plastics product manufacturing | 1 | \$325,763 |
| Paperboard container manufacturing | 1 | \$537,141 |
| All other miscellaneous professional, scientific, and technical services | 1 | \$452,438 |
| Insurance carriers, except direct life | 4 | \$2,806,316 |
| Electronic and precision equipment repair and maintenance | 2 | \$358,180 |
| Automotive repair and maintenance, except car washes | 10 | \$1,959,391 |
| Radio and television broadcasting | 1 | \$525,079 |
| Other motor vehicle parts manufacturing | 1 | \$391,733 |
| Commercial and industrial machinery and equipment rental and leasing | 1 | \$658,683 |
| Environmental and other technical consulting services | 1 | \$309,774 |
| Specialized design services | 1 | \$225,595 |
| Automotive equipment rental and leasing | 3 | \$1,201,593 |
| Dry-cleaning and laundry services | 2 | \$262,448 |
| Waste management and remediation services | 2 | \$589,738 |
| Printing | 1 | \$180,927 |
| Retail - Gasoline stores | 10 | \$1,563,704 |
| Rail transportation | 1 | \$597,564 |
| Retail - General merchandise stores | 34 | \$2,843,873 |
| Turned product and screw, nut, and bolt manufacturing | 0 | \$118,380 |
| Internet publishing and broadcasting and web search portals | 1 | \$665,482 |
| Securities and commodity contracts intermediation and brokerage | 1 | \$1,108,802 |
| Wholesale - Drugs and druggists' sundries | 1 | \$1,341,998 |
| Electroplating, anodizing, and coloring metal | 0 | \$61,403 |
| Personal and household goods repair and maintenance | 1 | \$429,377 |
| Scientific research and development services | 1 | \$306,588 |
| Satellite, telecommunications resellers, and all other telecommunications | 1 | \$286,189 |



| Sector Description | Employment | Output |
|---|------------|-------------|
| Air transportation | 1 | \$876,853 |
| General and consumer goods rental except video tapes and discs | 1 | \$249,720 |
| Fluid power pump and motor manufacturing | 0 | \$149,706 |
| Other miscellaneous chemical product manufacturing | 0 | \$208,226 |
| Wholesale - Grocery and related product wholesalers | 4 | \$1,179,984 |
| Newspaper publishers | 1 | \$143,395 |
| Facilities support services | 1 | \$117,473 |
| Retail - Building material and garden equipment and supplies stores | 7 | \$1,135,936 |
| lectric power generation - Fossil fuel | 1 | \$866,262 |
| Wireless telecommunications carriers (except satellite) | 1 | \$1,929,327 |
| Abrasive product manufacturing | 0 | \$67,953 |
| Rolled steel shape manufacturing | 0 | \$279,050 |
| Motion picture and video industries | 1 | \$201,289 |
| Motor vehicle seating and interior trim manufacturing | 0 | \$87,300 |
| Local government passenger transit | 1 | \$109,549 |
| Travel arrangement and reservation services | 1 | \$321,480 |
| Cable and other subscription programming | 0 | \$461,731 |
| atural gas distribution | 1 | \$842,346 |
| Search, detection, and navigation instruments manufacturing | 0 | \$72,887 |
| Other personal services | 3 | \$629,434 |
| Wholesale - Petroleum and petroleum products | 1 | \$1,376,675 |
| Local government electric utilities | 0 | \$208,453 |
| Metal coating and nonprecious engraving | 0 | \$58,935 |
| Plate work manufacturing | 0 | \$53,725 |
| Other financial investment activities | 3 | \$2,373,867 |
| il and gas extraction | 1 | \$4,755,638 |
| Junior colleges, colleges, universities, and professional schools | 6 | \$642,383 |
| Promoters of performing arts and sports and agents for public figures | 1 | \$247,513 |
| Fitness and recreational sports centers | 3 | \$201,401 |
| Periodical publishers | 0 | \$123,059 |
| Commercial Sports Except Racing | 0 | \$199,560 |
| Custom compounding of purchased resins | 0 | \$67,748 |
| State government electric utilities | 0 | \$129,897 |
| Transit and ground passenger transportation | 0 | \$150,898 |
| Paint and coating manufacturing | 0 | \$92,642 |
| Car washes | 2 | \$265,748 |
| Other federal government enterprises | 1 | \$12,557 |



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|---|------------|-------------|
| Sector Description | Employment | Output |
| Business and professional associations | 1 | \$349,534 |
| Other amusement and recreation industries | 3 | \$281,834 |
| Sign manufacturing | 0 | \$22,306 |
| Other educational services | 5 | \$749,384 |
| Lessors of nonfinancial intangible assets | 0 | \$1,268,996 |
| Other textile product mills | 0 | \$12,739 |
| Ready-mix concrete manufacturing | 0 | \$91,340 |
| Independent artists, writers, and performers | 0 | \$125,042 |
| Ornamental and architectural metal work manufacturing | 0 | \$25,703 |
| Carpet and rug mills | 0 | \$46,832 |
| Fabricated pipe and pipe fitting manufacturing | 0 | \$22,400 |
| Performing arts companies | 1 | \$142,218 |
| Other state government enterprises | 0 | \$176,516 |
| ther nonmetallic mineral mining and quarrying | 0 | \$11,716 |
| Hardware manufacturing | 0 | \$25,487 |
| Other fabricated metal manufacturing | 0 | \$25,582 |
| Ferrous metal foundries | 0 | \$18,718 |
| All other petroleum and coal products manufacturing | 0 | \$98,734 |
| Petroleum refineries | 0 | \$6,006,547 |
| Photographic services | 0 | \$101,924 |
| and and gravel mining | 0 | \$24,957 |
| Iron and steel forging | 0 | \$19,474 |
| Metal window and door manufacturing | 0 | \$19,483 |
| Paper mills | 0 | \$211,253 |
| lectric power generation - Wind | 0 | \$240,168 |
| Nonferrous forging | 0 | \$15,880 |
| Ball and roller bearing manufacturing | 0 | \$15,552 |
| aintenance and repair construction of residential structures | 3 | \$637,998 |
| Other rubber product manufacturing | 0 | \$13,396 |
| Polystyrene foam product manufacturing | 0 | \$30,821 |
| Metal heat treating | 0 | \$11,565 |
| Retail - Miscellaneous store retailers | 11 | \$1,298,626 |
| Brick, tile, and other structural clay product manufacturing | 0 | \$16,863 |
| Steel wire drawing | 0 | \$25,151 |
| Plastics packaging materials and unlaminated film and sheet manufacturing | 0 | \$27,217 |
| Other concrete product manufacturing | 0 | \$24,782 |
| All other miscellaneous wood product manufacturing | 0 | \$13,676 |
| Sheet metal work manufacturing | 0 | \$12,935 |



| Sector Description Motor vehicle steering, suspension component | Employment | Output |
|---|------------|-------------|
| (except spring), and brake systems manufacturing | 0 | \$34,590 |
| Pipeline transportation | 0 | \$511,127 |
| News syndicates, libraries, archives and all other information services | 0 | \$15,131 |
| Prefabricated metal buildings and components manufacturing | 0 | \$14,482 |
| Plastics pipe and pipe fitting manufacturing | 0 | \$39,382 |
| Fluid power cylinder and actuator manufacturing | 0 | \$6,266 |
| Metal crown, closure, and other metal stamping (except automotive) | 0 | \$8,643 |
| Wood container and pallet manufacturing | 0 | \$35,707 |
| Motor and generator manufacturing | 0 | \$9,375 |
| aintenance and repair construction of highways, streets, bridges, and tunnels | 0 | \$8,542 |
| Retail - Food and beverage stores | 21 | \$2,269,141 |
| Air conditioning, refrigeration, and warm air heating equipment manufacturing | 0 | \$26,515 |
| Retail - Sporting goods, hobby, musical instrument and book stores | 6 | \$593,855 |
| ater, sewage and other systems | 0 | \$29,996 |
| tone mining and quarrying | 0 | \$23,890 |
| Machine tool manufacturing | 0 | \$5,035 |
| Industrial mold manufacturing | 0 | \$3,577 |
| Paperboard mills | 0 | \$18,813 |
| Scales, balances, and miscellaneous general purpose machinery manufacturing | 0 | \$4,370 |
| Retail - Furniture and home furnishings stores | 4 | \$957,497 |
| Aluminum sheet, plate, and foil manufacturing | 0 | \$14,042 |
| Motor vehicle transmission and power train parts manufacturing | 0 | \$19,326 |
| Retail - Electronics and appliance stores | 4 | \$326,206 |
| All other miscellaneous manufacturing | 0 | \$42,292 |
| Lime manufacturing | 0 | \$15,363 |
| Gypsum product manufacturing | 0 | \$20,532 |
| Cutting tool and machine tool accessory manufacturing | 0 | \$2,858 |
| Other accommodations | 1 | \$81,632 |
| Manufactured home (mobile home) manufacturing | 0 | \$4,264 |
| Directory, mailing list, and other publishers | 0 | \$16,760 |
| Watch, clock, and other measuring and controlling device manufacturing | 0 | \$5,348 |
| Tire manufacturing | 0 | \$157,983 |
| Laminated plastics plate, sheet (except packaging), and shape manufacturing | 0 | \$4,553 |
| Motor vehicle body manufacturing | 0 | \$3,884 |



| Sector Description | Employment | Output |
|---|------------|-------------|
| Concrete block and brick manufacturing | 0 | \$11,789 |
| Other millwork, including flooring | 0 | \$7,362 |
| Truck trailer manufacturing | 0 | \$3,508 |
| Petroleum lubricating oil and grease manufacturing | 0 | \$24,043 |
| Metal cans manufacturing | 0 | \$14,161 |
| Motor vehicle electrical and electronic equipment manufacturing | 0 | \$13,305 |
| Metal tank (heavy gauge) manufacturing | 0 | \$3,128 |
| Nonferrous metal foundries | 0 | \$2,093 |
| Overhead cranes, hoists, and monorail systems manufacturing | 0 | \$4,565 |
| Urethane and other foam product (except polystyrene) manufacturing | 0 | \$8,943 |
| Wood kitchen cabinet and countertop manufacturing | 0 | \$5,690 |
| Travel trailer and camper manufacturing | 0 | \$68,705 |
| Oil and gas field machinery and equipment manufacturing | 0 | \$9,382 |
| eenhouse, nursery, and floriculture production | 1 | \$72,976 |
| Broadcast and wireless communications equipment manufacturing | 0 | \$2,889 |
| Sawmills | 0 | \$8,964 |
| Glass product manufacturing made of purchased glass | 0 | \$12,511 |
| oal mining | 0 | \$15,084 |
| Industrial and commercial fan and blower and air purification equipment manufacturing | 0 | \$1,621 |
| Amusement parks and arcades | 0 | \$74,493 |
| Cement manufacturing | 0 | \$12,929 |
| Photographic film and chemical manufacturing | 0 | \$5,026 |
| ommercial logging | 0 | \$1,864 |
| Funds, trusts, and other financial vehicles | 2 | \$2,024,094 |
| Retail - Health and personal care stores | 12 | \$1,730,820 |
| read and bakery product, except frozen, manufacturing | 1 | \$195,501 |
| nimal production, except cattle and poultry and eggs | 1 | \$162,591 |
| Other aluminum rolling, drawing and extruding | 0 | \$2,200 |
| Plastics material and resin manufacturing | 0 | \$9,335 |
| upport activities for oil and gas operations | 0 | \$14,772 |
| Other basic inorganic chemical manufacturing | 0 | \$9,552 |
| Pottery, ceramics, and plumbing fixture manufacturing | 0 | \$5,255 |
| Concrete pipe manufacturing | 0 | \$8,499 |
| Wood windows and door manufacturing | 0 | \$2,502 |
| Custom roll forming | 0 | \$2,328 |
| Other ambulatory health care services | 3 | \$435,434 |
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|--|------------|-------------|
| Sector Description | Employment | Output |
| Industrial gas manufacturing | 0 | \$12,373 |
| Power boiler and heat exchanger manufacturing | 0 | \$1,516 |
| Paper bag and coated and treated paper manufacturing | 0 | \$2,404 |
| Retail - Clothing and clothing accessories stores | 10 | \$1,450,219 |
| Wiring device manufacturing | 0 | \$1,400 |
| Turbine and turbine generator set units manufacturing | 0 | \$1,146 |
| Power-driven handtool manufacturing | 0 | \$2,001 |
| Sound recording industries | 0 | \$18,021 |
| Prefabricated wood building manufacturing | 0 | \$2,148 |
| Gasket, packing, and sealing device manufacturing | 0 | \$3,379 |
| lectric power generation - Hydroelectric | 0 | \$3,646 |
| Copper rolling, drawing, extruding and alloying | 0 | \$4,878 |
| Motor vehicle metal stamping | 0 | \$1,438 |
| Asphalt paving mixture and block manufacturing | 0 | \$15,763 |
| Mattress manufacturing | 0 | \$8,064 |
| Motor vehicle gasoline engine and engine parts manufacturing | 0 | \$3,175 |
| Sanitary paper product manufacturing | 0 | \$27,952 |
| Asphalt shingle and coating materials manufacturing | 0 | \$16,134 |
| Metal barrels, drums and pails manufacturing | 0 | \$1,257 |
| Surgical and medical instrument manufacturing | 0 | \$1,966 |
| Heavy duty truck manufacturing | 0 | \$4,574 |
| Engineered wood member and truss manufacturing | 0 | \$2,270 |
| Military armored vehicle, tank, and tank component manufacturing | 0 | \$1,118 |
| Cut stone and stone product manufacturing | 0 | \$22,802 |
| oultry processing | 0 | \$144,233 |
| Stationery product manufacturing | 0 | \$4,952 |
| Handtool manufacturing | 0 | \$1,444 |
| ottled and canned soft drinks and water | 1 | \$504,096 |
| Glass container manufacturing | 0 | \$14,863 |
| lectric power generation - Solar | 0 | \$2,992 |
| Miscellaneous nonmetallic mineral products manufacturing | 0 | \$2,020 |
| Nitrogenous fertilizer manufacturing | 0 | \$22,900 |
| Custom architectural woodwork and millwork | 0 | \$695 |
| Reconstituted wood product manufacturing | 0 | \$4,526 |
| Special tool, die, jig, and fixture manufacturing | 0 | \$380 |
| Boat building | 0 | \$33,982 |
| Major household appliance manufacturing | 0 | \$6,248 |
| Direct life insurance carriers | 1 | \$705,084 |



| Sector Description Book publishers Measuring, dispensing, and other pumping equipment manufacturing Unlaminated plastics profile shape manufacturing upport activities for agriculture and forestry Commercial and service industry machinery manufacturing Plastics bottle manufacturing | 0 0 0 0 0 0 0 | \$24,808 \$3,297 \$1,749 \$7,798 \$1,086 |
|---|---------------------------------|--|
| Measuring, dispensing, and other pumping equipment manufacturing Unlaminated plastics profile shape manufacturing upport activities for agriculture and forestry Commercial and service industry machinery manufacturing | 0 0 0 0 0 | \$3,297 \$1,749 \$7,798 |
| manufacturing Unlaminated plastics profile shape manufacturing upport activities for agriculture and forestry Commercial and service industry machinery manufacturing | 0 0 0 0 | \$1,749 \$7,798 |
| upport activities for agriculture and forestry Commercial and service industry machinery manufacturing | 0 0 0 | \$7,798 |
| Commercial and service industry machinery manufacturing | 0 0 0 | |
| manufacturing | 0 | \$1,086 |
| Plastics bottle manufacturing | 0 | |
| | _ | \$3,600 |
| Adhesive manufacturing | | \$1,809 |
| Semiconductor and related device manufacturing | 0 | \$1,412 |
| nimal, except poultry, slaughtering | 0 | \$149,252 |
| Secondary processing of other nonferrous metals | 0 | \$1,272 |
| Other electronic component manufacturing | 0 | \$477 |
| Ground or treated mineral and earth manufacturing | 0 | \$577 |
| luid milk manufacturing | 0 | \$213,887 |
| Polish and other sanitation good manufacturing | 0 | \$4,044 |
| Breweries | 0 | \$65,031 |
| Industrial truck, trailer, and stacker manufacturing | 0 | \$607 |
| ther animal food manufacturing | 0 | \$82,437 |
| Il other crop farming | 0 | \$51,933 |
| Other leather and allied product manufacturing | 0 | \$523 |
| Construction machinery manufacturing | 0 | \$2,992 |
| Printed circuit assembly (electronic assembly) manufacturing | 0 | \$481 |
| Flat glass manufacturing | 0 | \$2,461 |
| Totalizing fluid meter and counting device manufacturing | 0 | \$440 |
| Wineries | 0 | \$34,381 |
| Jewelry and silverware manufacturing | 0 | \$19,162 |
| Wood preservation | 0 | \$2,404 |
| Relay and industrial control manufacturing | 0 | \$285 |
| Cut and sew apparel manufacturing (except contractors) | 0 | \$1,137 |
| Other household nonupholstered furniture manufacturing | 0 | \$1,386 |
| Rolling mill and other metalworking machinery manufacturing | 0 | \$448 |
| airy cattle and milk production | 0 | \$45,151 |
| eef cattle ranching and farming, including feedlots and dual-purpose ranching and farming | 0 | \$139,725 |
| Racing and Track Operation | 0 | \$15,045 |
| Automatic environmental control manufacturing | 0 | \$261 |
| etal mining services | 0 | \$2,386 |
| Industrial process furnace and oven manufacturing | 0 | \$300 |



| Sector Description | Employment | Output |
|--|------------|-----------|
| All other miscellaneous electrical equipment and | | - |
| component manufacturing | 0 | \$261 |
| Veterinary services | 3 | \$423,797 |
| Support activities for printing | 0 | \$147 |
| Mineral wool manufacturing | 0 | \$509 |
| Cut stock, resawing lumber, and planing | 0 | \$464 |
| All other converted paper product manufacturing | 0 | \$1,110 |
| Lighting fixture manufacturing | 0 | \$269 |
| Electronic connector manufacturing | 0 | \$261 |
| Other basic organic chemical manufacturing | 0 | \$4,938 |
| ther clay, ceramic, refractory minerals mining | 0 | \$428 |
| All other industrial machinery manufacturing | 0 | \$171 |
| Industrial process variable instruments manufacturing | 0 | \$245 |
| Speed changer, industrial high-speed drive, and gear manufacturing | 0 | \$188 |
| Nonupholstered wood household furniture manufacturing | 0 | \$802 |
| ain farming | 0 | \$78,303 |
| Farm machinery and equipment manufacturing | 0 | \$435 |
| Secondary smelting and alloying of aluminum | 0 | \$691 |
| Curtain and linen mills | 0 | \$538 |
| Cut and sew apparel contractors | 0 | \$172 |
| Textile bag and canvas mills | 0 | \$731 |
| rozen cakes and other pastries manufacturing | 0 | \$15,017 |
| Soap and other detergent manufacturing | 0 | \$3,057 |
| lectric power generation - Biomass | 0 | \$691 |
| oultry and egg production | 0 | \$98,367 |
| Synthetic dye and pigment manufacturing | 0 | \$346 |
| ookie and cracker manufacturing | 0 | \$61,528 |
| Wood office furniture manufacturing | 0 | \$142 |
| ce cream and frozen dessert manufacturing | 0 | \$9,847 |
| Showcase, partition, shelving, and locker manufacturing | 0 | \$182 |
| Battery manufacturing | 0 | \$1,233 |
| Electricity and signal testing instruments manufacturing | 0 | \$103 |
| Other pressed and blown glass and glassware manufacturing | 0 | \$579 |
| Railroad rolling stock manufacturing | 0 | \$116 |
| Medical and diagnostic laboratories | 3 | \$552,582 |
| Small arms, ordnance, and accessories manufacturing | 0 | \$154 |
| Printing ink manufacturing | 0 | \$138 |



| Sector Description Pesticide and other agricultural chemical | Employment | Output |
|---|------------|-----------|
| manufacturing | 0 | \$19,023 |
| lectric power generation - All other | 0 | \$17 |
| Fiber optic cable manufacturing | 0 | \$140 |
| Manufactured ice | 0 | \$12,019 |
| Broom, brush, and mop manufacturing | 0 | \$832 |
| Textile and fabric finishing mills | 0 | \$147 |
| Gambling industries (except casino hotels) | 1 | \$270,274 |
| orestry, forest products, and timber tract production | 0 | \$1,075 |
| Upholstered household furniture manufacturing | 0 | \$1,293 |
| Office supplies (except paper) manufacturing | 0 | \$430 |
| eat processed from carcasses | 0 | \$284,344 |
| Apparel accessories and other apparel manufacturing | 0 | \$1,694 |
| Synthetic rubber manufacturing | 0 | \$219 |
| Doll, toy, and game manufacturing | 0 | \$191 |
| Rope, cordage, twine, tire cord and tire fabric mills | 0 | \$190 |
| Manufacturing and reproducing magnetic and optical media | 0 | \$188 |
| rozen specialties manufacturing | 0 | \$18,056 |
| Grantmaking, giving, and social advocacy organizations | 1 | \$391,966 |
| Automobile and light duty motor vehicle manufacturing | 0 | \$20,887 |
| Telephone apparatus manufacturing | 0 | \$168 |
| ortilla manufacturing | 0 | \$22,626 |
| Switchgear and switchboard apparatus manufacturing | 0 | \$55 |
| Leather and hide tanning and finishing | 0 | \$379 |
| Nonwoven fabric mills | 0 | \$185 |
| Heating equipment (except warm air furnaces) manufacturing | 0 | \$1,179 |
| Motor home manufacturing | 0 | \$161,941 |
| Other communications equipment manufacturing | 0 | \$98 |
| Mechanical power transmission equipment manufacturing | 0 | \$41 |
| Other engine equipment manufacturing | 0 | \$225 |
| ther snack food manufacturing | 0 | \$10,067 |
| Il other food manufacturing | 0 | \$16,111 |
| lour milling | 0 | \$55,626 |
| oybean and other oilseed processing | 0 | \$13,416 |
| oasted nuts and peanut butter manufacturing | 0 | \$12,143 |
| rilling oil and gas wells | 0 | \$47 |
| Museums, historical sites, zoos, and parks | 1 | \$78,947 |
| Veneer and plywood manufacturing | 0 | \$42 |



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|--|--------------|------------------|
| Sector Description | Employment 0 | Output \$51 |
| Electric lamp bulb and part manufacturing | 0 | \$173 |
| Fertilizer mixing | 0 | \$27 |
| Elevator and moving stairway manufacturing | 0 | \$25 |
| Narrow fabric mills and schiffli machine embroidery | 0 | \$805 |
| tton farming | 0 | \$222 |
| Small arms ammunition manufacturing | 0 | \$900 |
| Surgical appliance and supplies manufacturing | 0 | · |
| Fasteners, buttons, needles, and pins manufacturing | | \$2,229 \$351 |
| Blind and shade manufacturing | 0 | |
| anned specialties | | \$7,747 |
| getable and melon farming | 0 | \$17,272 |
| Lawn and garden equipment manufacturing | 0 | \$311 |
| endering and meat byproduct processing | 0 | \$2,892 |
| Packaging machinery manufacturing | 0 | \$16 |
| Air and gas compressor manufacturing | 0 | \$65 |
| Musical instrument manufacturing | 0 | \$1,236 |
| ther nonmetallic minerals services | 0 | \$26 |
| Computer storage device manufacturing | 0 | \$378 |
| offee and tea manufacturing | 0 | \$3,645 |
| Office furniture, except wood, manufacturing | 0 | \$22 |
| All other transportation equipment manufacturing | 0 | \$2,051 |
| heese manufacturing | 0 | \$4,040 |
| Institutional furniture manufacturing | 0 | \$20 |
| ats and oils refining and blending | 0 | \$3,602 |
| Fabric coating mills | 0 | \$35 |
| anned fruits and vegetables manufacturing | 0 | \$2,662 |
| Audio and video equipment manufacturing | 0 | \$652 |
| Analytical laboratory instrument manufacturing | 0 | \$17 |
| Welding and soldering equipment manufacturing | 0 | \$11 |
| Computer terminals and other computer peripheral equipment manufacturing | 0 | \$12 |
| Pharmaceutical preparation manufacturing | 0 | \$12,984 |
| Toilet preparation manufacturing | 0 | \$1,649 |
| uit farming | 0 | \$1,699 |
| ee nut farming | 0 | \$2,318 |
| Iseed farming | 0 | \$423 |
| Labor and civic organizations | 2 | \$305,917 |
| Bowling centers | 0 | \$20,620 |
| Small electrical appliance manufacturing | 0 | \$425 |
| Food product machinery manufacturing | 0 | \$22 |
| Dental equipment and supplies manufacturing | 0 | \$8 |



| Sector Description | Employment | Output |
|---|------------|--------------|
| Electromedical and electrotherapeutic apparatus manufacturing | 0 | \$60 |
| onchocolate confectionery manufacturing | 0 | \$2,053 |
| ry pasta, mixes, and dough manufacturing | 0 | \$3,749 |
| Electronic computer manufacturing | 0 | \$27 |
| Distilleries | 0 | \$365 |
| ayonnaise, dressing, and sauce manufacturing | 0 | \$710 |
| og and cat food manufacturing | 0 | \$48,864 |
| Ophthalmic goods manufacturing | 0 | \$38 |
| hocolate and confectionery manufacturing from cacao beans | 0 | \$1,821 |
| Video tape and disc rental | 0 | \$6,214 |
| Sporting and athletic goods manufacturing | 0 | \$144 |
| Sawmill, woodworking, and paper machinery | 0 | \$3 |
| Motorcycle, bicycle, and parts manufacturing | 0 | \$233 |
| Offices of dentists | 11 | \$1,760,534 |
| Tobacco manufacturing | 0 | \$476,806 |
| lavoring syrup and concentrate manufacturing | 0 | \$171 |
| pice and extract manufacturing | 0 | \$90 |
| Power, distribution, and specialty transformer manufacturing | 0 | \$0 |
| Biological product (except diagnostic) manufacturing | 0 | \$126 |
| In-vitro diagnostic substance manufacturing | 0 | \$553 |
| ommercial hunting and trapping | 0 | \$25,194 |
| Irradiation apparatus manufacturing | 0 | \$1 |
| Burial casket manufacturing | 0 | \$3,877 |
| Dental laboratories | 0 | \$770 |
| Hospitals | 60 | \$12,677,059 |
| Offices of physicians | 24 | \$5,011,376 |
| Nursing and community care facilities | 17 | \$1,616,162 |
| Individual and family services | 13 | \$892,084 |
| Private households | 11 | \$185,381 |
| Offices of other health practitioners | 10 | \$1,247,423 |
| Child day care services | 9 | \$700,177 |
| Outpatient care centers | 9 | \$1,559,615 |
| Home health care services | 6 | \$475,657 |
| Elementary and secondary schools | 5 | \$365,237 |
| Residential mental health, substance abuse, and other residential care facilities | 4 | \$369,385 |
| Religious organizations | 4 | \$420,238 |
| Community food, housing, and other relief services, including rehabilitation services | 3 | \$387,990 |
| Personal care services | 3 | \$558,524 |



| Sector Description | Employment | Output |
|---|--------------|-------------|
| Tenant-occupied housing | Employment 1 | \$2,581,815 |
| Death care services | 1 | \$154,944 |
| eet sugar manufacturing | 0 | \$0 |
| * Employment and payroll of local govt, hospitals and | | * - |
| health services | 0 | \$0 |
| * Employment and payroll of state govt, hospitals and health services | 0 | \$0 |
| ther metal ore mining | 0 | \$0 |
| ron ore mining | 0 | \$0 |
| onstruction of new commercial structures, including farm structures | 0 | \$0 |
| opper, nickel, lead, and zinc mining | 0 | \$0 |
| Fiber, yarn, and thread mills | 0 | \$0 |
| reamery butter manufacturing | 0 | \$0 |
| onfectionery manufacturing from purchased chocolate | 0 | \$0 |
| onstruction of new health care structures | 0 | \$0 |
| Carbon and graphite product manufacturing | 0 | \$0 |
| * Employment and payroll of federal govt, non-military | 0 | \$0 |
| Knit fabric mills | 0 | \$0 |
| ice milling | 0 | \$0 |
| Footwear manufacturing | 0 | \$0 |
| Water transportation | 0 | \$9,772 |
| old ore and silver ore mining | 0 | \$0 |
| Ship building and repairing | 0 | \$0 |
| onstruction of new single-family residential structures | 0 | \$0 |
| Nonferrous metal, except copper and aluminum, shaping | 0 | \$0 |
| onstruction of other new nonresidential structures | 0 | \$0 |
| onstruction of new manufacturing structures | 0 | \$0 |
| * Employment and payroll of federal govt, military | 0 | \$0 |
| Artificial and synthetic fibers and filaments manufacturing | 0 | \$0 |
| onstruction of other new residential structures | 0 | \$0 |
| * Employment and payroll of local govt, education | 0 | \$0 |
| Medicinal and botanical manufacturing | 0 | \$0 |
| Broadwoven fabric mills | 0 | \$0 |
| Other communication and energy wire manufacturing | 0 | \$0 |
| ommercial fishing | 0 | \$0 |
| * Employment and payroll of state govt, education | 0 | \$0 |
| Greeting card publishing | 0 | \$0 |
| alt manufacturing | 0 | \$0 |
| Phosphatic fertilizer manufacturing | 0 | \$0 |
| Bare printed circuit board manufacturing | 0 | \$0 |

Aerospace Employer and Employee Tax Credits Draft Evaluation



| Sector Description | Employment | Output |
|---|------------|--------------|
| Guided missile and space vehicle manufacturing | 0 | \$0 |
| onstruction of new multifamily residential structures | 0 | \$0 |
| Owner-occupied housing | 0 | \$30,837,847 |
| * Not an industry (Used and secondhand goods) | 0 | \$0 |
| Plumbing fixture fitting and trim manufacturing | 0 | \$0 |
| reakfast cereal manufacturing | 0 | \$0 |
| eafood product preparation and packaging | 0 | \$0 |
| bacco farming | 0 | \$0 |
| ry, condensed, and evaporated dairy product manufacturing | 0 | \$0 |
| lectric power generation - Geothermal | 0 | \$0 |
| garcane and sugar beet farming | 0 | \$0 |
| State government passenger transit | 0 | \$0 |
| Cutlery, utensil, pot, and pan manufacturing | 0 | \$0 |
| Propulsion units and parts for space vehicles and guided missiles manufacturing | 0 | \$0 |
| Surface active agent manufacturing | 0 | \$0 |
| Capacitor, resistor, coil, transformer, and other inductor manufacturing | 0 | \$0 |
| * Employment and payroll of local govt, other services | 0 | \$0 |
| Ammunition, except for small arms, manufacturing | 0 | \$0 |
| Nonferrous metal (exc aluminum) smelting and refining | 0 | \$0 |
| et corn milling | 0 | \$0 |
| Pulp mills | 0 | \$0 |
| Federal electric utilities | 0 | \$0 |
| lectric power generation - Nuclear | 0 | \$0 |
| rozen fruits, juices and vegetables manufacturing | 0 | \$0 |
| * Not an industry (Noncomparable foreign imports) | 0 | \$0 |
| onstruction of new power and communication structures | 0 | \$0 |
| Petrochemical manufacturing | 0 | \$0 |
| ugar cane mills and refining | 0 | \$0 |
| ehydrated food products manufacturing | 0 | \$0 |
| * Not an industry (Rest of world adjustment) | 0 | \$0 |
| onstruction of new highways and streets | 0 | \$0 |
| * Employment and payroll of state govt, other services | 0 | \$0 |
| * Not an industry (Scrap) | 0 | \$0 |
| Apparel knitting mills | 0 | \$0 |
| Semiconductor machinery manufacturing | 0 | \$0 |
| onstruction of new educational and vocational structures | 0 | \$0 |
| Explosives manufacturing | 0 | \$0 |



| Sector Description | Employment | Output |
|---|------------|-----------------|
| Conveyor and conveying equipment manufacturing | 0 | \$0 |
| Rubber and plastics hoses and belting manufacturing | 0 | \$0 |
| Alumina refining and primary aluminum production | 0 | \$0 |
| Mining machinery and equipment manufacturing | 0 | \$0 |
| Total | 3,569 | \$1,510,965,351 |



Appendix C: Fiscal Impact Methodology

While the IMPLAN tax report captures all tax revenue in the study area across all levels of government that exist in the area, it has limitations related to industry-specific profiles, therefore this evaluation has used historic long-range data on Gross State Product, as published by the Bureau of Economic Analysis, and total state tax revenue, as published by the Oklahoma Tax Commission. These ratios can be found in the following table.

State of Oklahoma Tax Collection/Gross State Product

| Year | Oklahoma GSP | Oklahoma Tax Revenue | Ratio |
|---------|-------------------|-------------------------|-------|
| 2005-06 | \$137,602,100,000 | \$8,435,214,025 | 6.1% |
| 2006-07 | \$144,862,600,000 | \$8,685,842,682 | 6.0% |
| 2007-08 | \$165,364,200,000 | \$9,008,981,280 | 5.4% |
| 2008-09 | \$145,546,500,000 | \$8,783,165,581 | 6.0% |
| 2009-10 | \$154,421,600,000 | \$7,774,910,000 | 5.0% |
| 2010-11 | \$166,386,300,000 | \$8,367,871,162 | 5.0% |
| 2011-12 | \$174,894,400,000 | \$8,998,362,975 | 5.1% |
| 2012-13 | \$181,922,200,000 | \$9,175,334,979 | 5.0% |
| 2013-14 | \$196,303,200,000 | \$9,550,183,790 | 4.9% |
| 2014-15 | \$186,865,600,000 | \$9,778,654,182 | 5.2% |
| 2015-16 | \$181,808,800,000 | \$8,963,894,053 | 4.9% |
| 2016-17 | \$191,762,700,000 | \$8,789,362,844 | 4.6% |
| 2017-18 | \$203,258,300,000 | \$9,837,247,035 | 4.8% |
| 2018-19 | \$205,672,300,000 | \$11,091,161,884 | 5.4% |
| 2019-20 | \$179,094,200,000 | \$10,494,867,628 | 5.9% |
| 2020-21 | \$214,724,900,000 | \$11,605,521,952 | 5.4% |
| 2021-22 | \$247,149,600,000 | \$13,401,926,174 | 5.4% |
| 2022-23 | \$253,872,900,000 | \$14,176,086,119 | 5.6% |
| 2023-24 | \$264,596,300,000 | \$12,627,649,733 | 4.8% |
| Average | \$189,268,878,947 | \$9,976,117,794 | 5.3% |



Appendix D: Incentive Best Practices

There has been extensive writing around what constitute business incentives best practices. From the project team's review of many sources, ²⁷ it has identified 10 important best practices and sought to incorporate them into the analysis and discussion of this incentive.

As a starting point, business incentives should be viewed as a process, not an event. The award of an incentive and the incentive features are part of that process, and many of the identified best practices reflect that. The process itself should take into consideration each of these factors, which PFM's subcontractor, Smart Incentives, demonstrates in the following illustration:



While the project team believes this is a strong set of best practices, there may well be others that are as (or more applicable) in specific situations. It is also likely that some of the best practices will come into conflict in some situations. For example, application and reporting requirements may reduce the simplicity of business compliance. As a result, these will always be subject to analysis on a case-by-case basis.

The 10 best practices are:

1. For maximum impact, incentives should be targeted. Examples of useful targeting include companies or industries that export their goods or services out-of-state; high economic impact companies or industries – such as those with higher wages and benefits, significant job creation, or significant capital investment.

2. Incentives should be discretionary. In most instances, an application process enables the state government to require company disclosure of information related to

²⁷ Three resources in particular were relied upon putting together the list of best practices. They are "What Factors Influence the Effectiveness of Business Incentives?" The Pew Charitable Trusts, April 4, 2019, accessed electronically at https://www.pewtrusts.org/en/research-and-analysis/issue-briefs/2019/04/what-factors-influence-the-effectiveness-of-business-incentives; "Improving Economic Development Incentives," Timothy J. Bartik, W.E. Upjohn Institute for Employment Research, 2018, accessed electronically at

https://research.upjohn.org/cgi/viewcontent.cgi?article=1000&context=up_policybriefs; "Best Practices for the Design and Evaluation of State Tax Incentives Programs for Economic Development," Matthew N. Murray and Donald J. Bruce, January 2017, included within another evaluation at

https://media.al.com/news_mobile_impact/other/AL%20ENTERTAIN%20NEWMKTS%203%209%2017.pdf Aerospace Employer and Employee Tax Credits Draft Evaluation



- eligibility criteria and enables the state to reject applications that do not meet its standards.
- 3. Incentives should leverage significant private capital. Ideally, the incentive should leverage private investment that is at least several multiples of the state investment.
- 4. Incentives should provide most of the benefit within 1-3 years and have a limited duration. Company discount rates are much higher than for the state, and businesses will significantly devalue incentive payments in later years.
- 5. Incentives should take into consideration state and/or local as well as industry economic conditions. Incentives that are provided in high performing areas or for stable and profitable businesses or industries will likely fail the 'but for test' meaning the activity would likely occur without the state incentive.
- 6. 'Smart' incentives help businesses overcome practical barriers to growth. In particular, customized assistance for locally owned, small and medium-sized businesses can have significant impact.
- 7. Incentives should be transparent. The incentive purpose should be clearly articulated, as are eligibility requirements, and regular, detailed reporting should be required from all program recipients.
- 8. Incentives should require accountability. When upfront financial incentives are offered in return for job creation, retention, or capital investment, there should be contract language in place that allows the state to 'claw back' state resources should the company not meet performance requirements.
- **9. Incentives should have caps.** To ensure the state's financial health, program dollar caps or limits should be in place. Incentive programs should also have a limited duration, with sunsets in place to require regular review of incentive performance.
- 10. **Incentives should be simple and understandable.** The state should be able to easily and effectively administer the incentive, and users should be able to readily comply with its requirements.