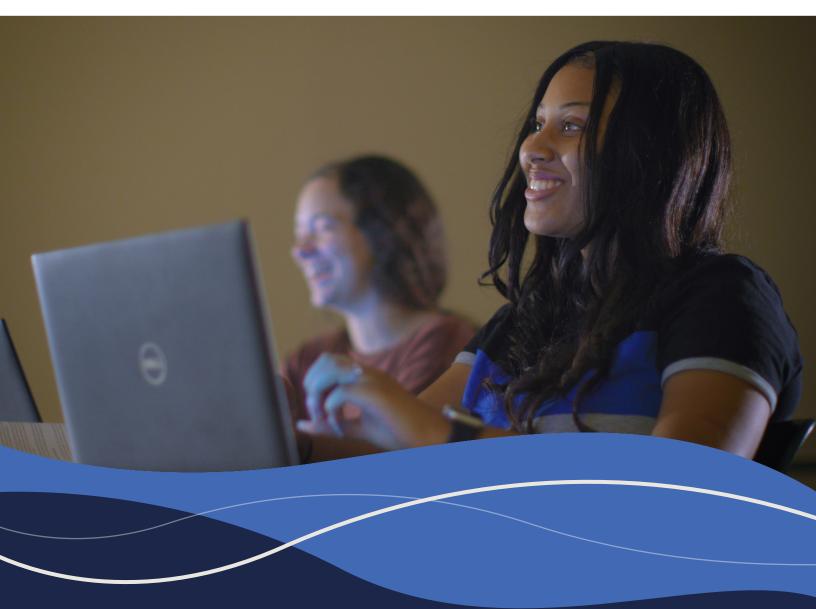


# EXECUTIVE SUMMARY

DECEMBER 2021



# The Economic Value of James Sprunt Community College

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**JAMES SPRUNT COMMUNITY COLLEGE (JSCC)** creates value in many ways. The college plays a key role in helping students increase their employability and achieve their individual potential. The college draws students to the county, generating new dollars and opportunities for Duplin County. JSCC provides students with the education, training, and skills they need to have fulfilling and prosperous careers. Furthermore, JSCC is a place for students to meet new people, increase their self-confidence, and promote their overall health and well-being.

JSCC influences both the lives of its students and the county economy. The college supports a variety of industries in Duplin County, serves county businesses, and benefits society as a whole in North Carolina from an expanded economy and improved quality of life. Additionally, the benefits created by JSCC extend to the state and local government through increased tax revenues and public sector savings.

This study measures the economic impacts created by JSCC on the business community and the benefits the college generates in return for the investments made by its key stakeholder groups—students, taxpayers, and society. The following two analyses are presented:



### Investment analysis

All results reflect employee, student, and financial data, provided by the college, for fiscal year (FY) 2019-20. Impacts on the Duplin County economy are reported under the economic impact analysis and are measured in terms of added income. The returns on investment to students, taxpayers, and society in North Carolina are reported under the investment analysis.



DUPLIN COUNTY, NC

JSCC influences both the **lives of its students** and the **county economy**.



JSCC promotes economic growth in Duplin County through its direct expenditures and the resulting expenditures of students and county businesses. The college serves as an employer and buyer of goods and services for its day-today and construction operations. The college's activities attract students from outside Duplin County, whose expenditures benefit county vendors. In addition, JSCC is a primary source of higher education to Duplin County residents and a supplier of trained workers to county industries, enhancing overall productivity in the county workforce.

### **Operations spending impact**



JSCC adds economic value to Duplin County as an employer of county residents and a large-scale buyer of goods and services. In FY 2019-20, the college employed 408 full-time and part-time faculty

and staff, 99% of whom lived in Duplin County. Total payroll at JSCC was \$9.6 million, much of which was spent in the county for groceries, mortgage and rent payments, dining out, and other household expenses. In addition, the college spent \$6.5 million on day-to-day expenses related to facilities, supplies, and professional services.

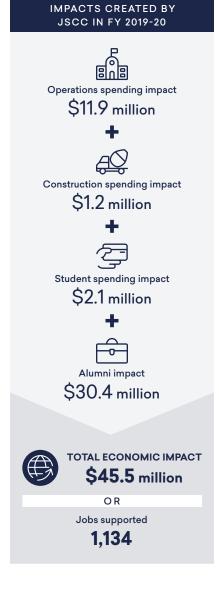
JSCC's day-to-day operations spending added \$11.9 million in income to the county during the analysis year. This figure represents the college's payroll, the multiplier effects generated by the in-county spending of the college and its employees, and a downward adjustment to account for funding that the college received from county sources. The \$11.9 million in added income is equivalent to supporting 436 jobs in the county.

### **Construction spending impact**



JSCC invests in construction each year to maintain its facilities, create additional capacities, and meet its growing educational demands. While the amount varies from year to year, these quick infusions of

income and jobs have a substantial impact on the county economy. In FY 2019-20, JSCC's construction spending generated \$1.2 million in added income, which is equivalent to supporting 26 jobs.



### Student spending impact



Around 24% of credit students attending JSCC originated from outside the county in FY 2019-20, and some of these students relocated to Duplin County to attend JSCC. These students may not have come

to the county if the college did not exist. In addition, some in-county students, referred to as retained students, would have left Duplin County if not for the existence of JSCC. While attending the college, these relocated and retained students spent money on groceries, accommodation, transportation, and other household expenses. This spending generated \$2.1 million in added income for the county economy in FY 2019-20, which supported 58 jobs in Duplin County.

### Alumni impact

The education and training JSCC provides for county residents has the greatest impact. Since its establishment, students have studied at JSCC and entered the county workforce with greater knowledge and new skills. Today, thousands of former JSCC students are employed in Duplin County. As a result of their education from JSCC, the students receive higher earnings and increase the productivity of the businesses that employ them. In FY 2019-20, JSCC alumni generated \$30.4 million in added income for the county economy, which is equivalent to supporting 614 jobs.

### **Total impact**

JSCC added \$45.5 million in income to the Duplin County economy during the analysis year, equal to the sum of the operations and construction spending impacts, the student spending impact, and the alumni impact. For context, the \$45.5 million impact was equal to approximately 2.7% of the total gross regional product (GRP) of Duplin County. This contribution that the college provided on its own is larger than the entire Finance & Insurance industry in the county.

JSCC's total impact can also be expressed in terms of jobs supported. The \$45.5 million impact supported 1,134 county jobs, using the jobs-to-sales ratios specific to each industry in the county. This means that one out of every 23 jobs in Duplin County is supported by the activities of JSCC and its students. In addition, the \$45.5 million, or 1,134 supported jobs, stemmed from different industry sectors. Among non-education industry sectors, JSCC's spending and alumni in the Other Services (except Public Administration) industry sector supported 118 jobs in FY 2019-20. If the college did not exist, these impacts would not have been generated in Duplin County.

#### JSCC IMPACTS BY INDUSTRY (JOBS SUPPORTED)



**One out of every 23 jobs** in Duplin County is supported by the activities of JSCC and its students.

## **INVESTMENT ANALYSIS**



An investment analysis evaluates the costs associated with a proposed venture against its expected benefits. If the benefits outweigh the costs, then the investment is financially worthwhile. The analysis presented here considers JSCC as an investment from the perspectives of students, taxpayers, and society in North Carolina.

#### **Student perspective**

In FY 2019-20, JSCC served 1,628 credit and 4,434 non-credit students. In order to attend the college, the students paid for tuition, fees, books, and supplies. They also gave up money they would have otherwise earned had they been working instead of attending college. The total investment made by JSCC's students in FY 2019-20 amounted to a present value of \$7.8 million, equal to \$2.5 million in out-of-pocket expenses and \$5.3 million in forgone time and money.

In return for their investment, JSCC's students will receive a stream of higher future earnings that will continue to grow throughout their working lives. For example, the average JSCC associate degree graduate from FY 2019-20 will see annual earnings that are \$6,300 higher than a person with a high school diploma or equivalent working in North Carolina. Over a working lifetime, the benefits of the associate degree over a high school diploma will amount to an undiscounted value of \$270.9 thousand in higher earnings per graduate. The present value of the cumulative higher future earnings that JSCC's FY 2019-20 students will receive over their working careers is \$57.4 million.

The students' benefit-cost ratio is 7.4. In other words, for every dollar students invest in JSCC in the form of out-of-pocket expenses and forgone time and money, they will receive a cumulative value of \$7.40 in higher future earnings.



Source: Emsi Burning Glass employment data.

STUDENTS SEE A HIGH RATE OF RETURN FOR THEIR INVESTMENT IN JSCC



Source: Forbes' S&P 500, 1991-2020. FDIC.gov, 6-2021.

Annually, the students' investment in JSCC has an average annual internal rate of return of 27.9%, which is impressive compared to the U.S. stock market's 30-year average rate of return of 10.6%.

### **Taxpayer perspective**

JSCC generates more in tax revenue than it takes. These benefits to taxpayers consist primarily of taxes that the state and local government will collect from the added revenue created in the state. As JSCC students will earn more, they will make higher tax payments throughout their

working lives. Students' employers will also make higher tax payments as they increase their output and purchases of goods and services. By the end of the FY 2019-20 students' working lives, the state and local government will have collected a present value of \$15.1 million in added taxes.

Benefits to taxpayers will also consist of savings generated by the improved lifestyles of JSCC students and the corresponding reduced government services. Education

For every dollar of public money invested in JSCC, taxpayers will receive a cumulative value of \$1.20 over the course of the students' working lives.

is statistically correlated with a variety of lifestyle changes. The educations that JSCC students receive will generate savings in three main categories: 1) healthcare, 2) justice system, and 3) income assistance. Improved health will lower students' demand for national health care services. In addition, costs related to the justice system will decrease. JSCC students will be more employable, so their reduced demand for income assistance such as welfare and unemployment benefits will benefit taxpayers. For a list of study references, contact the college for a copy of the main report. Altogether, the present value of the benefits associated with a JSCC education will generate \$1.7 million in savings to state and local taxpayers.

Total taxpayer benefits amount to \$16.8 million, the present value sum of the added taxes and public sector savings. Taxpayer costs are \$13.5 million, equal to the amount of state and local government funding JSCC received in FY 2019-20. These benefits and costs yield a benefit-cost ratio of 1.2. This means that for every dollar of public money invested in JSCC in FY 2019-20, taxpayers will receive a cumulative present value of \$1.20 over the course of the students' working lives. The average annual internal rate of return for taxpayers is 1.6%, which compares favorably to other long-term investments in the public and private sectors.

### Social perspective



Society as a whole in North Carolina benefits from the presence of JSCC in two major ways. Primarily, society benefits from an increased economic base in the state. This is attributed to the added income

from students' increased lifetime earnings (added student income) and increased business output (added business income), which raise economic prosperity in North Carolina.

Benefits to society also consist of the savings generated by the improved lifestyles of JSCC students. As discussed in the previous section, education is statistically correlated with a variety of lifestyle changes that generate social savings. Note that these costs are avoided by the consumers but are distinct from the costs avoided by the taxpayers outlined above. Healthcare savings include avoided medical costs associated with smoking, alcohol dependence, obesity, drug abuse, and depression. Justice system savings include avoided costs to the government and society due to less judicial activity. Income assistance savings include reduced welfare and unemployment claims. For a list of study references, contact the college for a copy of the main report.

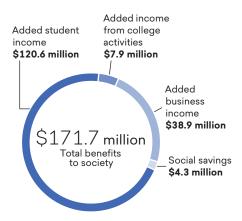
Altogether, the social benefits of JSCC equal a present value of \$171.7 million. These benefits include \$120.6 million in added student income, \$38.9 million in added business income, \$7.9 million in added income from college activities, as well as \$4.3 million in social savings related to health, crime, and income assistance in North Carolina. People in North Carolina invested a present value total of \$27 million in JSCC in FY 2019-20. The cost includes all the college and student costs.

The benefit-cost ratio for society is 6.3, equal to the \$171.7 million in benefits divided by the \$27 million in costs. In other words, for every dollar invested in JSCC, people in North Carolina will receive a cumulative value of \$6.30 in benefits. The benefits of this investment will occur for as long as JSCC's FY 2019-20 students remain employed in the state workforce.

### Summary of investment analysis results

The results of the analysis demonstrate that JSCC is a strong investment for all three major stakeholder groups—students, taxpayers, and society. As shown, students receive a great return for their investments in a JSCC education. At the same time, taxpayers' investment in JSCC returns more to government budgets than it costs and creates a wide range of social benefits throughout North Carolina.

#### SOCIAL BENEFITS IN NORTH CAROLINA FROM JSCC



Source: Emsi Burning Glass impact model.

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STUDENT PERSPECTIV	VE TAXPAYER	TAXPAYER PERSPECTIVE		SOCIAL PERSPECTIVE	
Present value benefits \$57.4 million	\$16.5	Present value benefits \$16.8 million		Present value benefits \$171.7 million	
Present value costs \$7.8 million		Present value costs \$13.5 million		Present value costs \$27 million	
Net present value \$49.7 million	•	Net present value \$3.3 million		Net present value \$144.6 million	
	of returnBenefit-cost ratio2.9%1.2	Rate of return 1.6%	Benefit-cost ratio 6.3	Rate of return $n/a^*$	

\* The rate of return is not reported for the social perspective because the beneficiaries of the investment are not necessarily the same as the original investors.

## CONCLUSION

The results of this study demonstrate that JSCC creates value from multiple perspectives. The college benefits county businesses by increasing consumer spending in the county and supplying a steady flow of qualified, trained workers to the workforce. JSCC enriches the lives of students by raising their lifetime earnings and helping them achieve their individual potential. The college benefits state and local taxpayers through increased tax receipts and a reduced demand for government-supported social services. Finally, JSCC benefits society as a whole in North Carolina by creating a more prosperous economy and generating a variety of savings through the improved lifestyles of students.

### About the study

Data and assumptions used in the study are based on several sources, including the FY 2019-20 academic and financial reports from JSCC, industry and employment data from the U.S. Bureau of Labor Statistics and U.S. Census Bureau, outputs of Emsi Burning Glass's Multi-Regional Social Accounting Matrix model, and a variety of studies and surveys relating education to social behavior. The study applies a conservative methodology and follows standard practice using only the most recognized indicators of economic impact and investment effectiveness. For a full description of the data and approach used in the study, please contact the college for a copy of the main report. The results of this study demonstrate that JSCC creates value from **multiple perspectives.** 



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Emsi Burning Glass provides colleges and universities with labor market data that helps create better outcomes for students, businesses, and communities. Our data, which cover more than 99% of the U.S. workforce, are compiled from a wide variety of government sources, job postings, and online profiles and résumés. Hundreds of institutions use Emsi Burning Glass to align programs with regional needs, drive enrollment, connect students with in-demand careers, track their alumni's employment outcomes, and demonstrate their institution's economic impact on their region. Visit <u>economicmodeling.com/higher-education</u> to learn more or connect with us.