



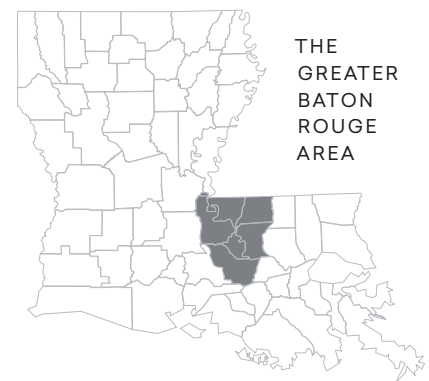
The Economic Value of Baton Rouge Community College



BATON ROUGE COMMUNITY COLLEGE (BRCC) creates value in many ways. The college plays a key role in helping students increase their employability and achieve their individual potential. The college retains students in the region, generating new dollars and opportunities for the Greater Baton Rouge Area.* BRCC provides students with the education, training, and skills they need to have fulfilling and prosperous careers. Furthermore, BRCC is a place for students to meet new people, increase their self-confidence, and promote their overall health and well-being.

BRCC influences both the lives of its students and the regional economy. The college supports a variety of industries in the Greater Baton Rouge Area, serves regional businesses, and benefits society as a whole in Louisiana from an expanded economy and improved quality of life. The benefits created by BRCC even extend to the state government through increased tax revenues and public sector savings.

This study measures the economic impacts created by BRCC 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:



BRCC influences both the **lives of its students** and the **regional economy**.



Economic impact analysis



Investment analysis

All results reflect employee, student, and financial data, provided by the college, for fiscal year (FY) 2018-19. Impacts on the Greater Baton Rouge Area 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 Louisiana are reported under the investment analysis.

* For the purposes of this analysis, the Greater Baton Rouge Area is comprised of the following parishes: East Baton Rouge, West Baton Rouge, East Feliciana, West Feliciana, Iberville, and Pointe Coupee.

ECONOMIC IMPACT ANALYSIS



BRCC promotes economic growth in the Greater Baton Rouge Area through its direct expenditures and the resulting expenditures of students and regional businesses. The college serves as an employer and buyer of goods and services for its day-to-day operations. The college's activities retain students in the Greater Baton Rouge Area, whose expenditures benefit regional vendors. In addition, BRCC is a primary source of higher education to the Greater Baton Rouge Area residents and a supplier of trained workers to regional industries, enhancing overall productivity in the regional workforce.

Operations spending impact



BRCC adds economic value to the Greater Baton Rouge Area as an employer of regional residents and a large-scale buyer of goods and services. In FY 2018-19, the college employed 530 full-time and part-time faculty and staff, 98% of whom lived in the Greater Baton Rouge Area. Total payroll at BRCC was \$30.8 million, much of which was spent in the region for groceries, mortgage and rent payments, dining out, and other household expenses. In addition, the college spent \$19 million on day-to-day expenses related to facilities, supplies, and professional services.

BRCC's day-to-day operations spending added \$42.5 million in income to the region during the analysis year. This figure represents the college's payroll, the multiplier effects generated by the in-region spending of the college and its employees, and a downward adjustment to account for funding that the college received from regional sources. The \$42.5 million in added income is equivalent to supporting 663 jobs in the region.

Student spending impact



Some in-region students, referred to as retained students, would have left the Greater Baton Rouge Area if not for the existence of BRCC. While attending the college, these retained students spent money on groceries, accommodation, transportation, and other household expenses. This spending generated \$18 million in added income for the regional economy in FY 2018-19, which supported 426 jobs in the Greater Baton Rouge Area.

IMPACTS CREATED BY BRCC IN FY 2018-19



Operations spending impact

\$42.5 million



Student spending impact

\$18 million



Alumni impact

\$236.9 million



TOTAL ECONOMIC IMPACT

\$297.5 million

OR

Jobs supported

4,520

Alumni impact



The education and training BRCC provides for regional residents has the greatest impact. Since its establishment, students have studied at BRCC and entered the regional workforce with greater knowledge and new skills. Today, thousands of former BRCC students are employed in the Greater Baton Rouge Area. As a result of their BRCC educations, the students receive higher earnings and increase the productivity of the businesses that employ them. In FY 2018-19, BRCC alumni generated \$236.9 million in added income for the regional economy, which is equivalent to supporting 3,431 jobs.

Total impact

BRCC added \$297.5 million in income to the Greater Baton Rouge Area economy during the analysis year, equal to the sum of the operations spending impact, the student spending impact, and the alumni impact. For context, the \$297.5 million impact was equal to approximately 0.7% of the total gross regional product (GRP) of the Greater Baton Rouge Area. This contribution that the college provided on its own was nearly as large as the entire Arts, Entertainment, & Recreation industry in the region.

BRCC's total impact can also be expressed in terms of jobs supported. The \$297.5 million impact supported 4,520 regional jobs, using the jobs-to-sales ratios specific to each industry in the region. This means that one out of every 90 jobs in the Greater Baton Rouge Area is supported by the activities of BRCC and its students. In addition, the \$297.5 million, or 4,520 supported jobs, stemmed from different industry sectors. Among non-education industry sectors, BRCC's spending and alumni in the Accommodation & Food Services industry sector supported 594 jobs in FY 2018-19. These are impacts that would not have been generated without the college's presence in the Greater Baton Rouge Area.

BRCC IMPACTS BY INDUSTRY (JOBS SUPPORTED)



594

Accommodation & Food Services



544

Retail Trade



391

Construction



343

Real Estate & Rental & Leasing



308

Health Care & Social Assistance

**One out of every
90 jobs** in the Greater
Baton Rouge Area
is supported by the
activities of BRCC
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 BRCC as an investment from the perspectives of students, taxpayers, and society in Louisiana.

Student perspective



In FY 2018-19, BRCC served 11,633 credit and 11,111 non-credit students. In order to attend the college, the students paid for tuition, fees, books, and supplies. They also took out loans and will incur interest on those loans. Additionally, students gave up money they would have otherwise earned had they been working instead of attending college. The total investment made by BRCC's students in FY 2018-19 amounted to a present value of \$100.1 million, equal to \$21 million in out-of-pocket expenses (including future principal and interest on student loans) and \$79.1 million in forgone time and money.

In return for their investment, BRCC's students will receive a stream of higher future earnings that will continue to grow throughout their working lives. For example, the average BRCC associate degree graduate from FY 2018-19 will see annual earnings that are \$11,400 higher than a person with a high school diploma or equivalent working in Louisiana. Over a working lifetime, the benefits of the associate degree over a high school diploma will amount to an undiscounted value of \$456 thousand in higher earnings per graduate. The present value of the cumulative higher future earnings that BRCC's FY 2018-19 students will receive over their working careers is \$534 million.

The students' benefit-cost ratio is 5.3. In other words, for every dollar students invest in BRCC, in the form of out-of-pocket expenses and forgone time and money, they will receive a cumulative value of \$5.30 in higher future earnings.

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



Average annual return for BRCC students
25.3%



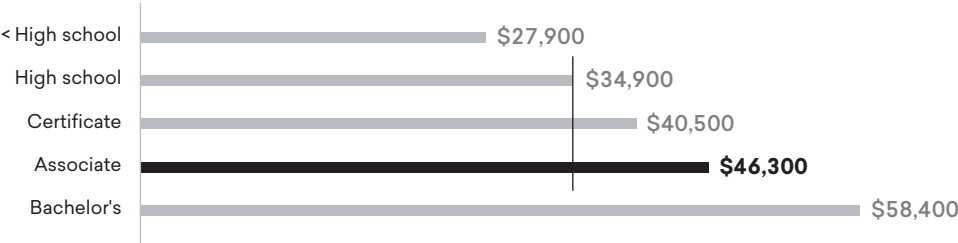
Stock market 30-year average annual return
9.9%



Interest earned on savings account (National Rate Cap)
0.8%

Source: Forbes' S&P 500, 1989-2018. FDIC.gov, 6-2019.

The average associate degree graduate from BRCC will see an increase in earnings of **\$11,400** each year compared to a person with a high school diploma or equivalent working in Louisiana.



Source: Emsi employment data.

Annually, the students' investment in BRCC has an average annual internal rate of return of 25.3%, which is impressive compared to the U.S. stock market's 30-year average rate of return of 9.9%.

Taxpayer perspective



BRCC generates more in tax revenue than it takes. These benefits to taxpayers consist primarily of taxes that the state government will collect from the added revenue created in the state. As BRCC 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 2018-19 students' working lives, the state government will have collected a present value of \$85.2 million in added taxes.

Benefits to taxpayers will also consist of savings generated by the improved lifestyles of BRCC students and the corresponding reduced government services. Education is statistically correlated with a variety of lifestyle changes. Students' BRCC educations will generate savings in three main categories: 1) healthcare, 2) crime, and 3) income assistance. Improved health will lower students' demand for national health care services. In addition, students will be less likely to interact with the criminal justice system, resulting in a reduced demand for law enforcement and victim costs. BRCC 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 BRCC education will generate \$5 million in savings to state taxpayers.

Total taxpayer benefits amount to \$90.2 million, the present value sum of the added taxes and public sector savings. Taxpayer costs are \$16 million, equal to the amount of state government funding BRCC received in FY 2018-19. These benefits and costs yield a benefit-cost ratio of 5.6. This means that for every dollar of public money invested in BRCC in FY 2018-19, taxpayers will receive a cumulative value of \$5.60 over the course of the students' working lives. The average annual internal rate of return for taxpayers is 23.4%, which compares favorably to other long-term investments in the public and private sectors.

For every dollar of public money invested in BRCC, taxpayers will receive a cumulative value of **\$5.60** over the course of the students' working lives.

Social perspective



Society as a whole in Louisiana benefits from the presence of BRCC in two major ways. Primarily, society benefits from an increased economic base in the state. This is attributed to higher student earnings and increased business output, which raise economic prosperity in Louisiana.

Benefits to society also consist of the savings generated by the improved lifestyles of BRCC 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. Savings related to crime include reduced security expenditures and insurance administration, lower victim costs, and reduced expenditures by the criminal justice system. 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.

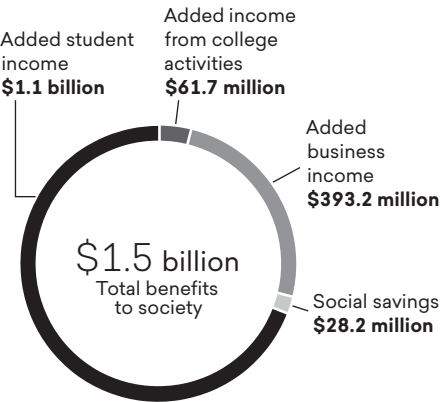
Altogether, the social benefits of BRCC equal a present value of \$1.5 billion. These benefits include \$1.5 billion in added income through students' increased lifetime earnings and increased business output, as well as \$28.2 million in social savings related to health, crime, and income assistance in Louisiana. People in Louisiana invested a present value total of \$138.7 million in BRCC in FY 2018-19. The cost includes all the college and student costs.

The benefit-cost ratio for society is 11.2, equal to the \$1.5 billion in benefits divided by the \$138.7 million in costs. In other words, for every dollar invested in BRCC, people in Louisiana will receive a cumulative value of \$11.20 in benefits. The benefits of this investment will occur for as long as BRCC's FY 2018-19 students remain employed in the state workforce.

Summary of investment analysis results

The results of the analysis demonstrate that BRCC 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 BRCC education. At the same time, taxpayers' investment in BRCC returns more to government budgets than it costs and creates a wide range of social benefits throughout Louisiana.

SOCIAL BENEFITS IN LOUISIANA FROM BRCC



Source: Emsi impact model.

STUDENT PERSPECTIVE		TAXPAYER PERSPECTIVE		SOCIAL PERSPECTIVE	
<div>Present value benefits</div> <div>\$534 million</div> <div>Present value costs</div> <div>\$100.1 million</div> <div>Net present value</div> <div>\$433.9 million</div>		<div>Present value benefits</div> <div>\$90.2 million</div> <div>Present value costs</div> <div>\$16 million</div> <div>Net present value</div> <div>\$74.2 million</div>		<div>Present value benefits</div> <div>\$1.5 billion</div> <div>Present value costs</div> <div>\$138.7 million</div> <div>Net present value</div> <div>\$1.4 billion</div>	
Benefit-cost ratio	Rate of return	Benefit-cost ratio	Rate of return	Benefit-cost ratio	Rate of return
5.3	25.3%	5.6	23.4%	11.2	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 BRCC creates value from multiple perspectives. The college benefits regional businesses by increasing consumer spending in the region and supplying a steady flow of qualified, trained workers to the workforce. BRCC enriches the lives of students by raising their lifetime earnings and helping them achieve their individual potential. The college benefits state taxpayers through increased tax receipts and a reduced demand for government-supported social services. Finally, BRCC benefits society as a whole in Louisiana 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 2018-19 academic and financial reports from BRCC, industry and employment data from the U.S. Bureau of Labor Statistics and U.S. Census Bureau, outputs of Emsi'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 BRCC creates value from **multiple perspectives**.



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