



University  
of Pittsburgh

# **DYNAMIC IMPACTS ACROSS THE COMMONWEALTH**

# 2018



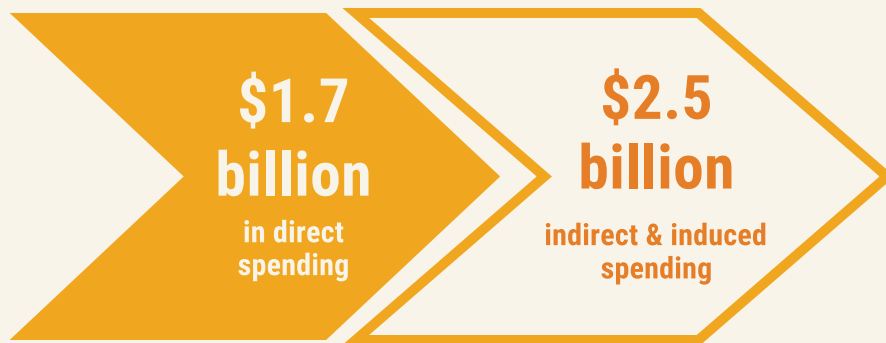


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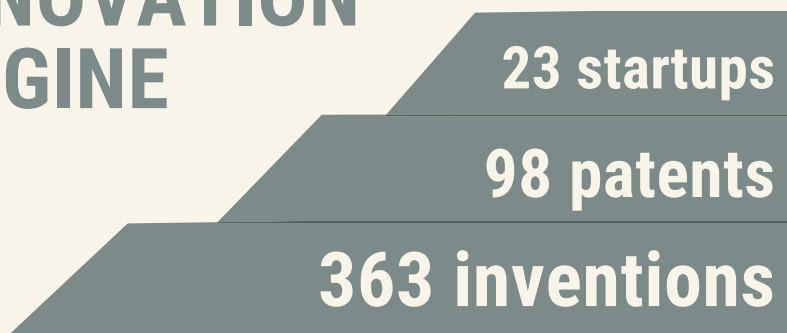
# The University of Pittsburgh plays an essential

## ECONOMIC DRIVER



**\$4.2 billion in economic impact**

## INNOVATION ENGINE



**\$1.7 billion in research impact**

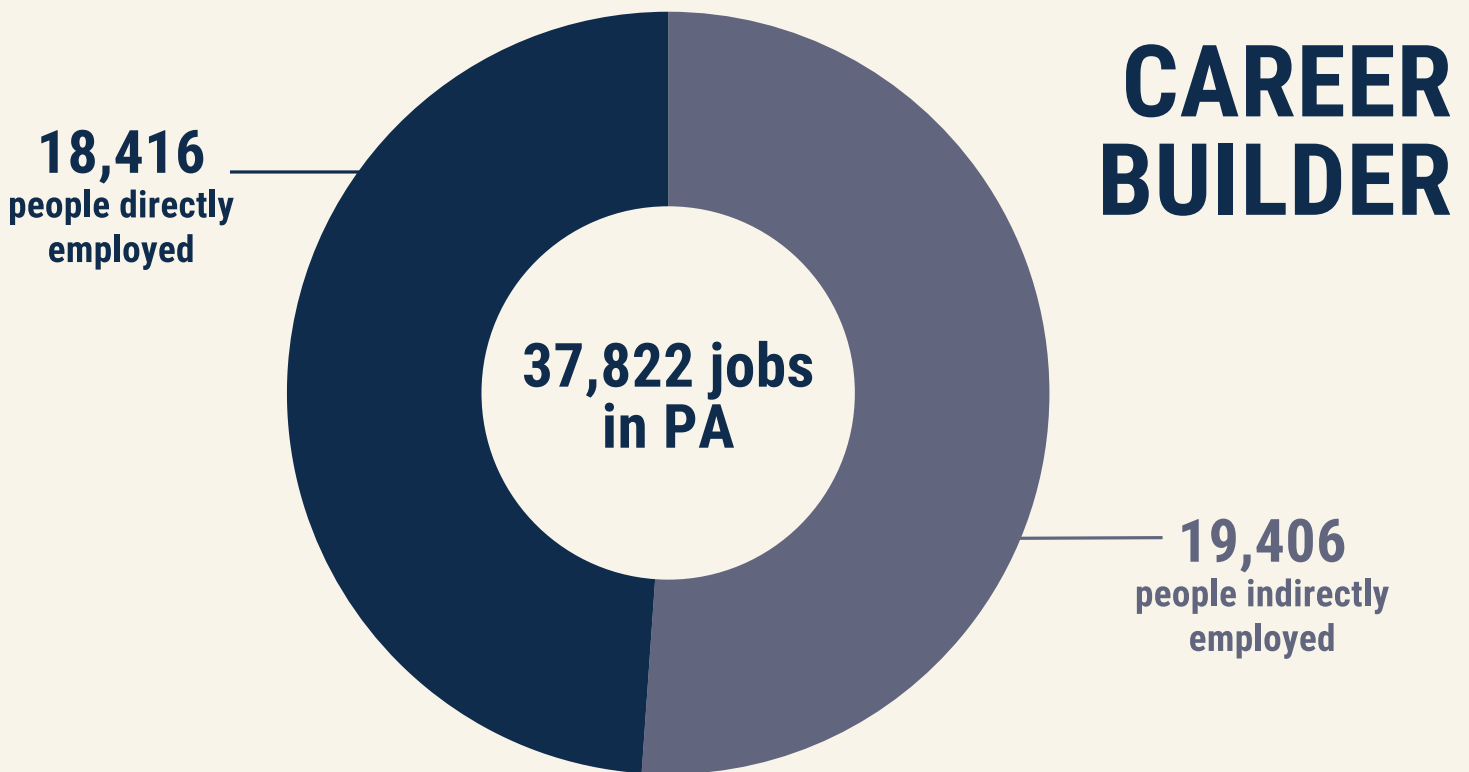
## TALENT CULTIVATOR



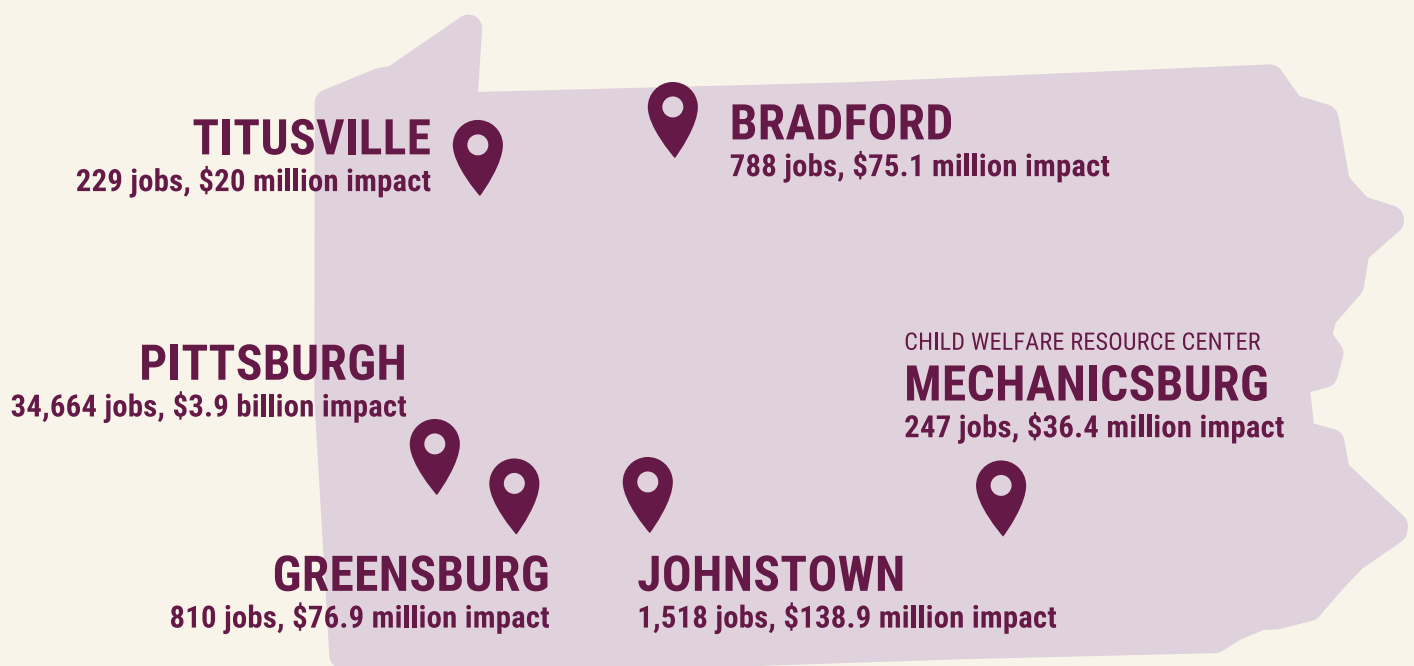
🎓 = 1,000 graduates

**181,000 alumni in Pennsylvania**  
**\$114.3 billion additional income over their careers**

# role in the Pennsylvania economy.



## COMMUNITY CONNECTOR



# EXECUTIVE REPORT

## Introduction

Founded in 1787, the University of Pittsburgh (Pitt) is a public research university in Pittsburgh, Pennsylvania. It also includes four undergraduate schools located at campuses within western Pennsylvania: Bradford, Greensburg, Johnstown, Titusville, and the Pennsylvania Child Resource Center in Mechanicsburg. The University of Pittsburgh is a major institution in the city of Pittsburgh and maintains a world-class reputation in academics and research. The University and its medical affiliate, UPMC are stalwarts in the local and regional economies and play vital roles in the rapidly growing education and medical industry sectors of Pittsburgh.

Pitt continues to shine as one of the world's greatest higher education institutions and continually receives accolades for its accomplishments in research and innovation. The Wall Street Journal/Times Higher Education College Rankings places Pitt in its top five for public universities in the Northeastern United States. According to the National Institutes of Health Pitt ranks fifth among U.S. universities in competitive grants awarded to members of its faculty and ninth according to the National Science Foundation in federal science and engineering funding. Other recognitions include:

- Pitt is among only 16 institutions in the country to be named a top producer of both the Fulbright U.S. Student and Scholar programs for the 2017-18 academic year. The Fulbright Program is the U.S. government's flagship international educational exchange program.
- Pitt consistently ranks in the top 30 among U.S. public universities in U.S. News' annual America's Best Colleges listing, (currently the campus is tied for 26th) and Pitt graduate schools and programs perennially earn high grades in U.S. News' Best Graduate School rankings.
- U.S. News ranks Pitt's Bradford, Greensburg, and Johnstown campuses among the best baccalaureate colleges in the Northern United States.
- Pitt is included in the Princeton Review's 2017 listing of The Best 381 Colleges, which features the top 15 percent of the nation's four-year colleges.
- Pitt rose from #15 to #12 among U.S. public universities in the 2017 Center for World University Rankings, based on quality of education, alumni employment, quality of faculty, influence, patents, scholarly citations, broad impact, and publications.
- U.S. News ranks Pitt's Doctor of Physical Therapy Program #1 and Doctor of Nursing Program #5
- Kiplinger's Personal Finance named Pitt to the magazine's list of 100 best-value public colleges nationwide. The list, released in December 2017, marked the 13th consecutive year that Pitt was ranked as the top value among all public colleges and universities in Pennsylvania.
- The National Academy of Inventors ranked Pitt #21 on its list of top 100 Worldwide Universities Granted U.S. Patents in 2017 and Thomson Reuters ranks Pitt #30 on its list of the world's 100 most innovative universities, based on such criteria as research output and patent filings.
- Pitt's philosophy program is ranked #1 in the QS World University Rankings.

Of course, no university can accomplish such great feats without a premier and talented student body. Ninety-three percent of the incoming 2018 freshman class took at least one advanced course in high school and produced a median SAT score of 1280-1420. Pitt's accomplished student body is also just as diverse – Pittsburgh campus students came from 102 countries (3,400+ international students), all 50 U.S. states, three U.S. territories, and the District of Columbia.

In addition to academics, the University of Pittsburgh also prides itself on being a good neighbor to the Oakland neighborhood of Pittsburgh, and the metropolitan region. The University places a high priority on advancing the quality of life for students and residents alike. Pitt has invested in the long-term success of Pittsburgh's Homewood neighborhood through the opening of its first Community Engagement Center (CEC). In addition, a second location will be situated in Pittsburgh's Hill District. Each year, the University has thousands of students, staff, and faculty who volunteer through initiatives such as Pitt Day of Caring for the greater good of the region.

The University also hosts the Community Power to Prosper Program which is a six-month business education program that helps small business owners in under-served neighborhoods develop plans for their long-term growth and success. This program has produced 49 African-American business owners and 48 women business owners to date. This has propelled 72 small businesses to the next level. The Community Power to Prosper Program is among a suite of services offered by the Institute for Entrepreneurial Excellence's Urban & Community Entrepreneurship program.



### Project Overview

In May 2018, Tripp Umbach was retained by the University of Pittsburgh to update historical studies as well as measure the economic, employment, and government revenue impacts of operations and research of all of its campuses. The overall economic and fiscal impact that the University of Pittsburgh has on the vitality of the region and state includes the following elements:

- Business volume impacts (analysis includes collection of information regarding capital expenditures, operational expenditures, salary data, and state and regional business volumes).
- The direct and indirect employment impacts of the University of Pittsburgh.
- The government revenue impact of the University of Pittsburgh at the local and state levels.
- The impact of University of Pittsburgh alumni on the economy (including wage premiums and job creation).
- The economic impact of out-of-state research funding, including research commercialization, patents and licensing, and business spinoffs.



## Methodology Employed in the Economic Impact Study

This economic impact analysis measures the effect of direct and indirect/induced business volume and government revenue impacts for all of the University of Pittsburgh's operations throughout Pennsylvania. The methodology employed in the calculation of these impacts is IMPLAN.<sup>1</sup> Primary data utilized to conduct the analysis were collected from the University of Pittsburgh. Data included capital expenditures, operational expenditures, jobs, payroll and benefits, and taxes. The approach taken on this study was decidedly conservative.

Economic impact isn't about dollars flowing into an organization, it begins when an organization spends money. Studies measuring economic impact capture the direct economic impact of an organization's spending, plus additional indirect and induced spending in the economy as a result of direct spending.

Total economic impact measures the dollars that are generated within Pennsylvania due to the presence of the University of Pittsburgh. This includes not only spending on goods and services with a variety of vendors within the state and the spending of its staff and visitors, but also the business volume generated by businesses within Pennsylvania that benefit from Pitt's spending. It is important to remember that not all dollars spent by a university remain in its home state. Dollars that "leak" out of the state in the form of purchases from out-of-state vendors are not included in the University's economic impact on the state. The multipliers utilized in this study are derived from the IMPLAN software.

Key economic impact findings presented within the summary include the total current (FY 2018) economic and employment impact for the state as well as the state and local government revenue impact of Pitt's operations.<sup>2</sup> Economic analysis was also completed for past years and is shown in this report for FY 1996, FY 2002, FY 2008, and FY 2013.

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1. Minnesota IMPLAN Group Inc. (MIG) is the corporation that is responsible for the production of IMPLAN (IMPact analysis for PLANning) data and software. IMPLAN is a micro-computer-based, input-output modeling system. With IMPLAN, one can estimate Input-Output models of up to 528 sectors for any region consisting of one or more counties. IMPLAN includes procedures for generating multipliers and estimating impacts by applying final demand changes to the model.

2. Fiscal Year 2018 represents the period of time from July 1, 2017 to June 30, 2018.



## UNIVERSITY OF PITTSBURGH IS INTEGRAL TO THE STATE'S ECONOMIC SUCCESS

Operations of the University of Pittsburgh directly or indirectly impact residents throughout Pennsylvania, generating nearly \$4.2 billion annually in overall economic impact. The University of Pittsburgh affects business volume in Pennsylvania in two ways:

1. Direct expenditures for goods and services by Pitt, its staff, faculty, students, and visitors. This spending supports local businesses, which in turn employ local individuals to sell the goods and provide the services that university constituencies need.
2. Indirect or induced spending within the Commonwealth of Pennsylvania. The businesses and individuals that receive direct payments re-spend this money within the state, thus creating the need for even more jobs.

As a result of expenditures on goods and services by Pitt, its staff, faculty, students, and visitors, the overall economic impact of all of the University of Pittsburgh's operations on the state of Pennsylvania in 2018 was \$4.2 billion (\$1.7 billion direct impact and \$2.5 billion indirect and induced). (See Figure 1).

FIGURE 1.



The table below shows the top 10 industries impacted by Pitt operations in terms of economic output by industry.

TABLE 1.

### UNIVERSITY OF PITTSBURGH TOP 10 INDUSTRIES BY EMPLOYMENT, 2018

Description	Total Economic Output
Colleges/Universities	\$1,717,756,498
Real estate establishments	\$408,354,670
Mortgages	\$125,042,375
Hotels and motels	\$105,208,117
Food service and beverage providers	\$94,864,352
Wholesale trade businesses	\$73,777,178
Hospitals	\$68,504,530
Offices of physicians, dentists, and other health practitioners	\$63,782,106
Personal care services	\$59,311,023
Tourism	\$49,868,843

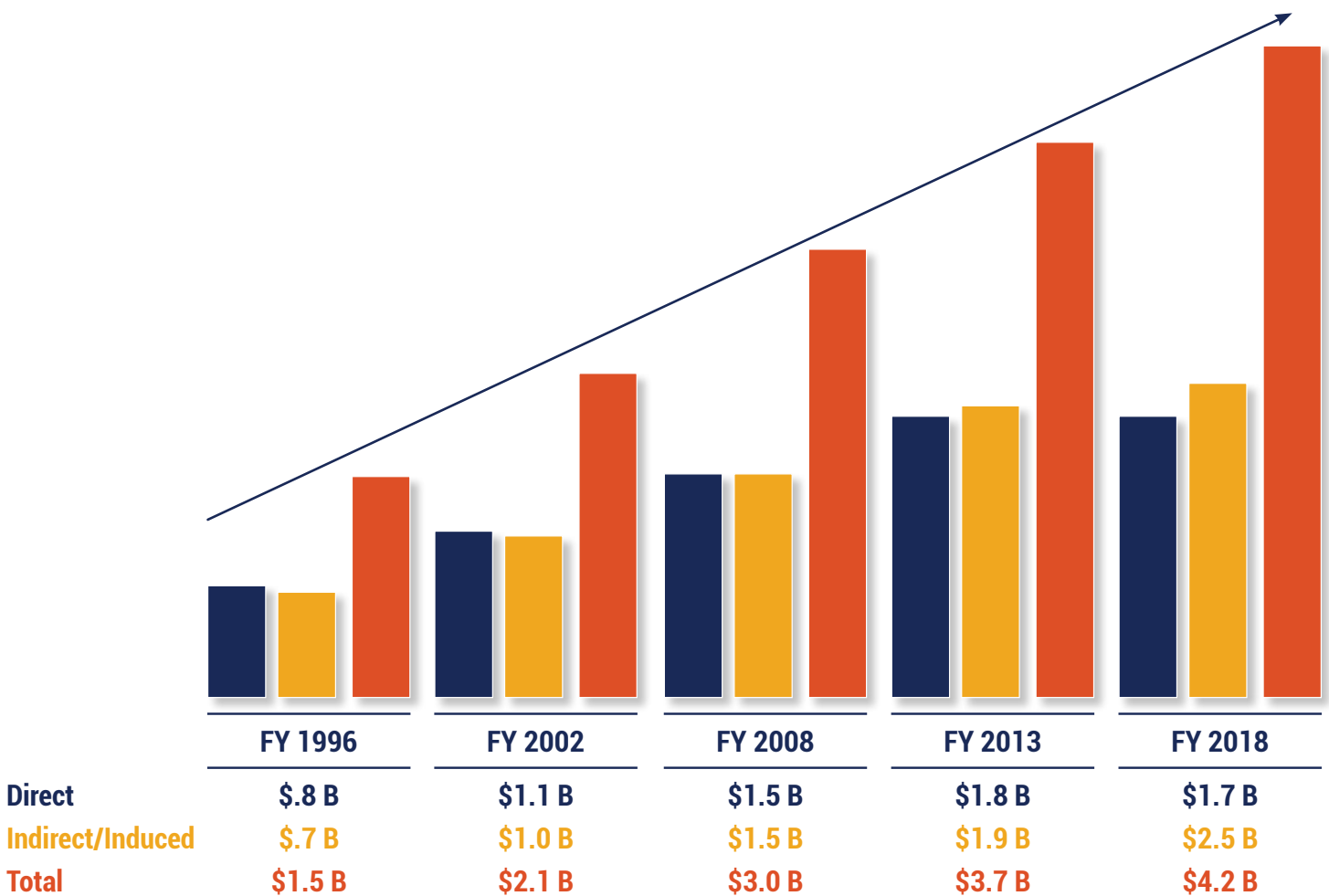
Source: Tripp Umbach, using IMPLAN results from data obtained through the University of Pittsburgh

As a result of the University's expenditures and operations throughout Pennsylvania, the state realizes a significant return on its investment. Given Pitt's ability to effectively leverage the state appropriation beyond its fundamental education and research missions through strategic partnerships and relationships with the University of Pittsburgh Medical Center (UPMC), Carnegie Mellon University (CMU), and public and private institutions throughout the state, the return on the state's investment is much greater than the original investment made.

The growth of the University of Pittsburgh since FY 1996 is impressive. Figure 2 below demonstrates the near tripling of economic impact (2.8 times greater in 2018) at the University of Pittsburgh since 1995. This increase is due to the insitutional commitment to providing the highest quality of education, administrative leadership, faculty, interinstitutional and business collaboration, and a commitment to the research enterprise.

**FIGURE 2.**

**ECONOMIC IMPACT OF THE UNIVERSITY OF PITTSBURGH (FY 1996 TO FY 2018)**



## University of Pittsburgh Creates and Sustains Jobs

The University of Pittsburgh supports 37,822 jobs in the Commonwealth of Pennsylvania. One out of every 161 jobs in the state is attributable to the University.<sup>3</sup> These jobs, both full-time and part-time, include not only direct employment by the University, but also indirect and induced jobs created for supply and equipment vendors, contractors and laborers for the construction and renovation of university facilities and jobs created in the community at hotels, restaurants, and retail stores in support of the University's workforce and its visitors.

The University of Pittsburgh directly employed 18,416 people during FY 2018. To put this in perspective, according to the Department of Labor and Industry, the University of Pittsburgh is the 14th-largest employer in the state. The University of Pittsburgh supports thousands of jobs statewide in virtually every sector of the Pennsylvania economy, such as construction, business and professional services, restaurants and hotels, information technology, security, and temporary employment companies. These indirect/induced jobs (19,406 jobs) are supported by the 18,416 jobs held by Pennsylvania residents directly employed by the University. (See Figure 3.)

Additionally, Pitt's Swanson School of Engineering recognized the manufacturing industry's need for high-tech, high-precision, and high-skill job training. The school is creating on-ramps for the future manufacturing workforce through the Manufacturing Assistance Center (MAC) in Pittsburgh's Homewood neighborhood. The MAC offers training in advanced manufacturing and connects local job-seekers with manufacturers who need qualified workers. The MAC's job placement rate exceeds 95 percent over its rich 25-year history.

**FIGURE 3.**

### UNIVERSITY OF PITTSBURGH EMPLOYMENT IMPACT, 2018

**Direct: 18,416 jobs**



**Indirect: 19,406 jobs**



**Total: 37,822 jobs**



Source: Tripp Umbach, using IMPLAN results from data obtained through the University of Pittsburgh



**"The University of Pittsburgh has afforded me the opportunity to engage and challenge myself to make a difference within the University system and the community. These opportunities to develop my hard and soft skill sets through education and professional development has guided me throughout my career. Starting as a custodian 26 years ago and working my way up to the director of Facility Services reflects that the University creates pathways to success."**

**—Will Mitchell,  
Director of Facility Services, University of Pittsburgh**

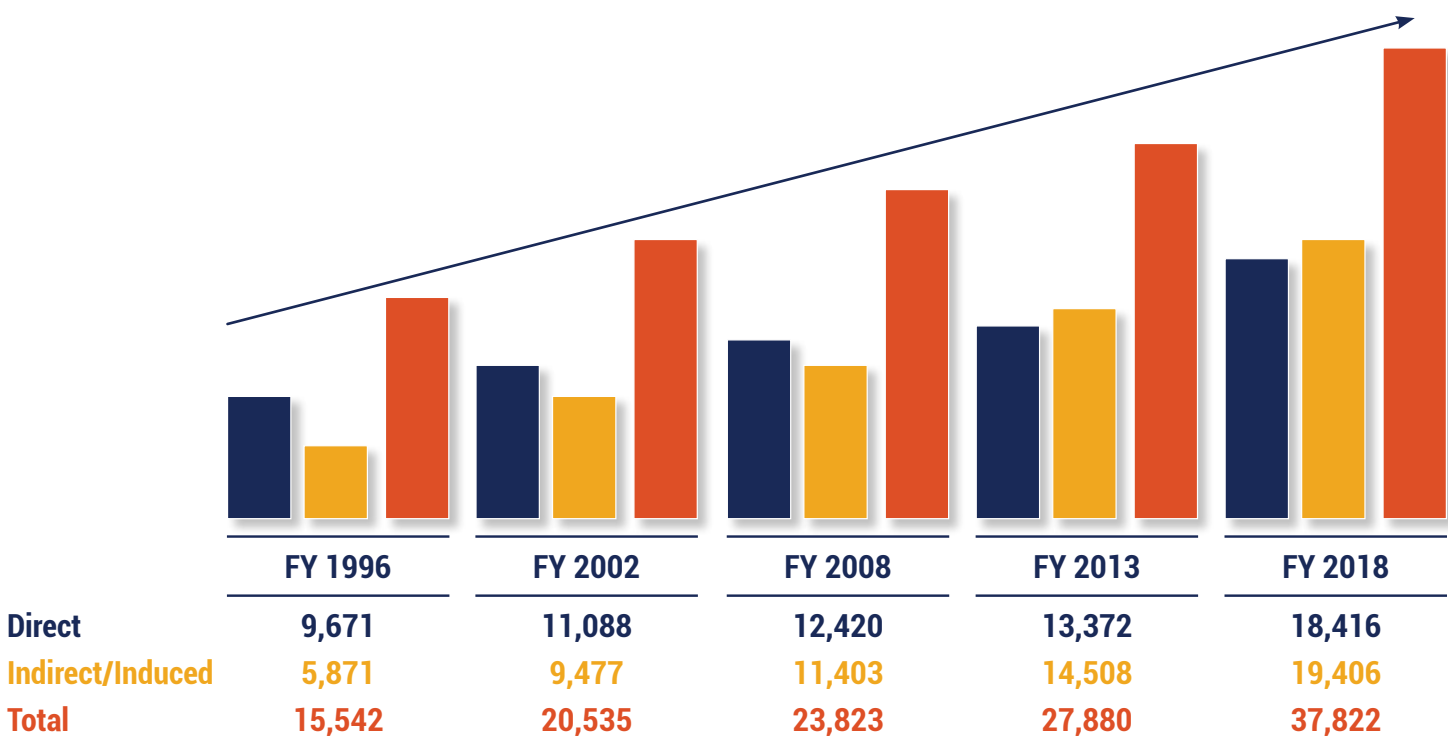
3. Bureau of Labor Statistics report current Pennsylvania employment at 6,087,000.

**TABLE 2.****UNIVERSITY OF PITTSBURGH TOP 10 INDUSTRIES BY EMPLOYMENT, 2018**

Description	Total Employment (in jobs)
Colleges/Universities	18,579
Real estate establishments	1,829
Transit and ground passenger transportation	1,696
Personal care services	1,647
Food service and beverage providers	1,121
Full-service restaurants	1,009
Hotels and motels, including casino hotels	665
Sporting goods, hobby, musical instrument, and book stores	557
Miscellaneous retail stores	415
Hospitals	403

Source: Tripp Umbach, using IMPLAN results from data obtained through the University of Pittsburgh

The growth in employment from FY 1996 to FY 2018 is nearly three and a half times (243 percent). It is also important to note that indirect and induced jobs have increased throughout the state and region because of the employees and university purchases within the Commonwealth. (See Figure 4).

**FIGURE 4.****EMPLOYMENT IMPACT OF THE UNIVERSITY OF PITTSBURGH (FY 1996 TO FY 2018)**

## UNIVERSITY OF PITTSBURGH STRENGTHENS STATE AND LOCAL GOVERNMENTS

A common misperception is that public universities do not generate tax revenue. State and local government revenues attributable to the presence of the University of Pittsburgh totaled nearly \$183.6 million in 2018. Through its local spending, as well as direct and indirect support of jobs, the presence of the University stabilizes and strengthens the local and statewide tax base.

**TABLE 3.**

### UNIVERSITY OF PITTSBURGH STATE AND LOCAL GOVERNMENT REVENUE IMPACT, 2018

Description	Employee Compensation	Tax on Production and Imports	Households	Corporations
Dividends				\$465,533
Social Ins Tax- Employee Contribution	\$245,470			
Social Ins Tax- Employer Contribution	\$514,190			
TOPI: Sales Tax		\$63,464,201		
TOPI: Property Tax		\$58,010,631		
TOPI: Motor Vehicle Lic		\$1,091,256		
TOPI: Severance Tax		\$0		
TOPI: Other Taxes		\$10,759,812		
TOPI: S/L NonTaxes		\$339,719		
Corporate Profits Tax				\$7,838,853
Personal Tax: Income Tax			\$33,907,595	
Personal Tax: NonTaxes (Fines- Fees)			\$4,296,840	
Personal Tax: Motor Vehicle License			\$1,226,405	
Personal Tax: Property Taxes			\$637,753	
Personal Tax: Other Tax (Fish/Hunt)			\$767,823	
<b>Total State and Local Tax</b>	<b>\$759,660</b>	<b>\$133,665,619</b>	<b>\$40,836,416</b>	<b>\$8,304,386</b>
<b>Total State and Local Tax: \$183,566,081</b>				

## UNIVERSITY OF PITTSBURGH RESEARCH

### Pitt People and Their Impactful Research

Researchers at Pitt have helped to beat polio, pioneered TV and heavier-than-air flight, and turned Pittsburgh into the world's organ-transplantation capital, among other breakthroughs. Today this tradition of excellence in research continues at Pitt in areas ranging from literary criticism to the quest for quantum computers as well as population health and precision medicine.

The University of Pittsburgh had \$808 million in research activity for research and other sponsored programs during FY 2018. These research dollars enter the Pennsylvania economy from a wide variety of agencies, including the National Science Foundation and the National Institutes of Health. This research funding is received by a diverse group of departments, colleges, and campuses throughout the University system. Pitt's research expenditures (an indicator of activity and growth) and indirect and induced economic activity totaled nearly \$1.7 billion during FY 2018.

The University of Pittsburgh's research operations make tangible and quantifiable economic contributions. Along with creating jobs for research staff and support personnel, Pitt scientists are contributing to new product development and technology commercialization. These efforts are supported by the Innovation Institute. Established in 2013, Pitt's Innovation Institute is the University's hub for entrepreneurship and technology transfer. It provides a comprehensive suite of services for Pitt Innovators, from protecting intellectual property to the commercialization of new discoveries through licensing and/or new enterprise development. The Institute also provides a wealth of educational programming, mentoring, and networking for Pitt faculty, students, and partners.

The Innovation Institute strengthens the culture of innovation and entrepreneurship at Pitt and is eager to facilitate and support entrepreneurial initiatives across the University and beyond. It also invites alumni, entrepreneurs, and industry partners to collaborate with our faculty and students to help achieve societal impact through commercialization. Pitt's Innovation Institute helped researchers disclose 363 inventions, file 98 patents, and launch 23 startups in FY 2018.

Through a \$1 million investment, Pitt has supported 42 commercialization projects since 2017. One of these projects, LyGenesis, leveraged Pitt's investment to secure \$3 million in seed capital for its revolutionary liver transplant therapy.

Knowledge and technology transfers have helped to spin out commercial ventures which in turn promotes entrepreneurship, economic development, and job creation. The measured impacts of Pitt research account for only the operational impacts; if commercialization of this research were to be followed and analyzed, the impact would be exponentially higher.

**FIGURE 5.**

#### ECONOMIC IMPACT OF UNIVERSITY OF PITTSBURGH RESEARCH ENTERPRISE

FY 1996	\$457.6 million
FY 2002	\$843.5 million
FY 2008	\$1.3 billion
FY 2013	\$1.5 billion
FY 2018	\$1.7 billion

Source: Tripp Umbach, using IMPLAN results from data obtained through the University of Pittsburgh

With 16 schools, thriving multidisciplinary centers, and close ties to UPMC, Pitt's dynamic research spans multiple disciplines. Pitt researchers also collaborate with colleagues from more than 80 other universities, including nearby Carnegie Mellon University, and corporate partners near Pitt's urban campus. The following are multidisciplinary research areas in which Pitt is a current or emerging leader:

- Aging
- Bioengineering
- Computer Modeling
- Drug Discovery
- Energy
- Global Health
- Humanities
- International Studies
- Nanoscience
- National Preparedness
- Neuroscience
- Philosophy
- Translational Medicine
- Biochemistry
- Organ Transplantation

## The University of Pittsburgh Research Creates High-Quality Jobs

In FY 2018, Pitt's operational and capital expenditures for sponsored research and other sponsored programs supported 8,683 jobs. These jobs include not only Pitt's direct employment of research professionals, but also indirect jobs created for supply and equipment vendors, contractors and laborers for the construction and renovation of laboratory facilities, administrators and managers who support the research infrastructure, and jobs created in the community by the disposable income of the scientific workforce.

If Pitt can maintain and grow its strong faculty base, the level of research dollars and associated jobs will increase. This will attract and consequently recirculate fresh dollars into the local economy. With continued high levels of research funding and expenditures, Pitt will remain an anchor for thousands of jobs based on its research funding alone.



## PITT BENEFITS THE STATE BEYOND OPERATIONS

Pitt's total impact on the state of Pennsylvania goes beyond its annual operations. Economic impact studies often capture only the effect that can be assigned a quantitative value, but the qualitative significance and effects of Pitt go far beyond its annual multibillion-dollar economic impact. Pitt educates citizens, scholars, future employees, leaders, and innovators. Pitt provides access to expert faculty, arts, and cultural activities; top-tier medical care and education; research libraries; and a highly skilled future workforce. Assigning a dollar amount to the outreach and community activities of a major research university such as Pitt is challenging, but on a daily basis, the lives of those in the surrounding communities are significantly enhanced by its presence in a multitude of ways.

### Pitt Educates the Future Workforce of Pennsylvania

Pitt educates the workforce that Pennsylvania needs to succeed in the 21st century. Approximately 9,000 undergraduate, graduate, and doctoral students graduate every year from the entire University and are essential to the state's human capital and workforce needs. In FY 2018, the University of Pittsburgh conferred 8,994 degrees. About 56 percent of graduates will stay in Pennsylvania and contribute to the state economy.

The contributions of Pitt graduates are critically important to the economic vitality of the state. The University's alumni number more than 324,000 and reside in all 50 states, the District of Columbia, four U.S. territories, and 160 foreign countries. More than half of the alumni live in Pennsylvania. Pitt is a global talent magnet, attracting top students in a wide range of disciplines – many of whom stay in Pennsylvania upon graduation.

By educating students, Pitt adds to the talent pool of human capital in the state. A Pitt degree increases a graduate's value, productivity, and earning potential in the job market. Based on data on median annual earnings for university graduates from the U.S. Department of Commerce's Bureau of Economic Analysis, a bachelor's degree earned at a university increases a graduate's salary by an average of \$21,100 a year compared with a high school graduate's salary (from \$35,400 to \$56,500). A graduate degree earned at a university increases a graduate's salary by an average of \$13,500 a year when compared to a bachelor's degree (from \$56,500 to \$70,000). Furthermore, the achievement of a doctorate degree adds an additional \$21,000 to annual earnings. Considering the average individual's work life is roughly 40 years, the benefit of earning a college degree provides about \$844,000 more in total lifetime wages over someone receiving a high school diploma.

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### ANNUAL IMPACTS OF UNIVERSITY OF PITTSBURGH GRADUATES

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**Undergrad: \$68.8 M**



**Master's: 16.2 M**



**Doctoral: \$12.2 M**





The 5,816 undergraduate degrees Pitt awarded in academic year 2018 equate to the creation of \$68.8 million of future value over 40 years (counting only the graduates from a single year). A similar analysis applied to the advanced degrees awarded in academic year 2018 equates to another \$16.2 million of value created. Finally, applying the analysis to those who achieved a doctoral or post-doctoral degree in 2018 will earn an additional \$12.2 million. Therefore, on an annual basis, Pitt creates \$97.2 million (\$68.8 million + \$16.2 million + \$12.2 million) of incremental lifetime earnings for members of each graduating class in the state of Pennsylvania. This impact is above and beyond the impact of the University's operations.

To calculate the economic impact of Pitt alumni on a continuing basis in Pennsylvania, Tripp Umbach assembled figures on the distribution of the alumni for whom Pitt has current address information and used this distribution for the body of more than 181,000 alumni who have graduated and lived in Pennsylvania. Based on each alumnus spending an average of 40 years in the workforce, Pitt alumni add an estimated \$114.3 billion in income to the state's economy each year.

### Pitt Provides Support to the Community

In addition to the University's \$4.2 billion annual impact, Pitt employees and students generate more than \$73.1 million each year in charitable donations and volunteer services.<sup>4</sup> These benefits are made up of the following:

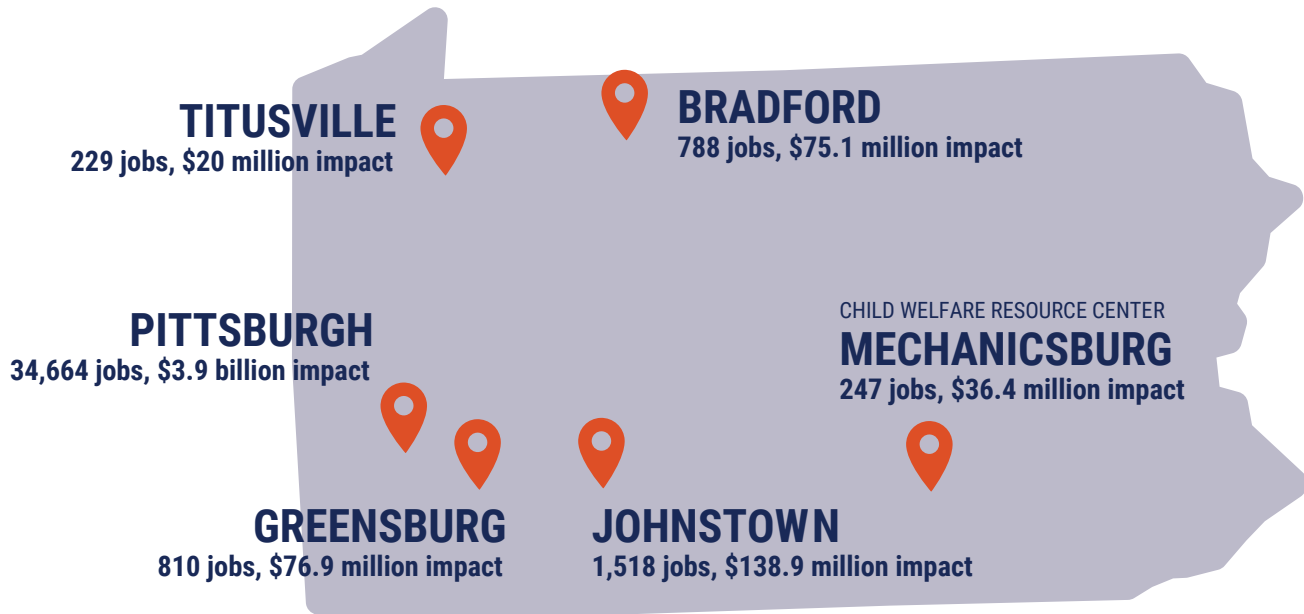
- \$16.4 million donated to local charitable organizations.
- Nearly \$56.7 million in value of volunteer time provided to area communities.



4. Tripp Umbach has conducted primary data collection via survey research where students, staff, and faculty provide estimates on spending patterns, including information on the number of volunteer hours and charitable donations in which they provide. Tripp Umbach used a conservative assumption of \$22.14 per hour to calculate the value of volunteer services. This amount was calculated independently by the Points of Light Foundation.

## GENERATING IMPACT THROUGHOUT THE COMMONWEALTH

Pitt's regional campuses each play a significant role in the University's overall economic impact across Pennsylvania. Economic impact analysis was completed for the University of Pittsburgh, as well as for each of the individual campuses throughout the state. (See Table 4).



**TABLE 4.**

### ECONOMIC IMPACT BY CAMPUS

	Economic Impact	Employment Impact	Government Revenue Impact
<b>University of Pittsburgh</b>	<b>\$4.2 billion</b>	<b>37,822 jobs</b>	<b>\$ 183,566,082</b>
Pittsburgh Campus	\$ 3.9 billion	34,664 jobs	\$ 171,926,350
Bradford Campus	\$ 75.1 million	788 jobs	\$ 3,450,668
Greensburg Campus	\$ 76.9 million	810 jobs	\$ 3,831,284
Johnstown Campus	\$ 138.9 million	1,518 jobs	\$ 6,980,759
Titusville Campus	\$20.0 million	229 jobs	\$ 946,269
Child Welfare Resource Center – Mechanicsburg	\$36.4 million	247 jobs	\$ 1,456,219

The total University employment impact number is a result of the operations and impacts in the entire Pennsylvania Commonwealth and reflects impacts outside of the specific campus breakdowns.

## INDIVIDUAL CAMPUS FINDINGS

### Pittsburgh Campus

In the neighborhood of Oakland, the Pittsburgh campus consists of approximately 130 urban acres. It is a mix of classic architecture blended with modern technology. A short distance from many of Pittsburgh's local assets – Schenley Park, Carnegie Mellon University, world-class museums – it is only minutes from Pittsburgh's downtown urban core. More than 19,000 students study at the Oakland campus each year making it one of the region's most vibrant, consistent, and important economic drivers.

It is at Pitt's Oakland campus that some of the University's greatest achievements have taken place, such as the creation of the first polio vaccine, development of CPR, and pioneering the first radio transmission across the Atlantic Ocean.

Additional accolades and prestigious rankings for the Oakland campus include:

- Pitt is the world's top university for philosophy, according to the 2016 QS World University Rankings.
- Pitt is among the top 15 U.S. public universities in the 2017 Center for World University Rankings, based on quality of education, alumni employment, quality of faculty, influence, patents, scholarly citations, broad impact, and publications.
- The School of Medicine falls in the top 15 on the U.S. News & World Report Best Medical Schools for Research rankings
- The School of Nursing is ranked in the top ten for its master's and doctoral programs by the U.S. News & World Report Best Graduate Schools listing and falls in the top twenty on the QS World University Rankings by Subject
- Pitt ranks in the top 30 on the Thomson Reuters list of the world's 100 most innovative universities based criteria including research output and patent filings.
- Pitt received INSIGHT Into Diversity's 2017 Higher Education Excellence in Diversity Award for outstanding commitment to diversity and inclusion.
- Pitt has been included in The Princeton Review's Guide to Green Colleges since 2012.
- Calling Pitt "a world class research university" with an "unwavering commitment to excellence," a Middle States Commission on Higher Education accreditation report in September 2012 reaccruited the University for a 10-year period, without qualification, the maximum permissible time for an extension of accreditation.

## THE UNIVERSITY OF PITTSBURGH – PITTSBURGH CAMPUS SUPPORTS THE STATE ECONOMY

OVERALL ECONOMIC  
IMPACT OF THE  
UNIVERSITY OF  
PITTSBURGH –  
PITTSBURGH CAMPUS  
ACROSS THE STATE WAS  
**\$3.9 BILLION.**

**\$3.9**  
billion

**34,664**  
jobs

THE PITTSBURGH  
CAMPUS DIRECTLY  
OR INDIRECTLY  
SUPPORTED  
**34,664 JOBS**  
THROUGHOUT THE  
STATE OF PA.

THE PITTSBURGH  
CAMPUS GENERATED  
APPROXIMATELY  
**\$171.9 MILLION** IN  
STATE AND LOCAL  
GOVERNMENT REVENUES  
FOR THE STATE OF PA.

**\$171.9**  
million

## Economic Impact

The overall economic impact of the Pittsburgh Campus' operations on the state of Pennsylvania in 2018 was \$3.9 billion (\$1.6 billion direct impact and \$2.3 billion indirect and induced).

## Employment Impact

The total employment impact of the Pittsburgh Campus in the state of Pennsylvania is 34,664 jobs (16,855 direct jobs) in 2018. As a result of the Pittsburgh Campus' operations, 17,809 indirect and induced jobs are created in Pennsylvania.

## Government Revenue Impact

The Pittsburgh Campus' operations in Pennsylvania generate \$171.9 million per year in state and local tax revenue.

## Community Benefits

The Pittsburgh Campus offers many benefits to the community through various activities that students, faculty, or staff participate in or offer to local community organizations, such as:

**PittServes** a university-wide initiative that engages students in meaningful service to the community on a local, national, and international scale.

With a focus on sustainability, education, and community development, this initiative allows Pitt to increase student community service and broaden its impact. PittServes frequently match opportunities for more than 500 students to spend a day serving in various Pittsburgh communities. They coordinate several Signature Days of Service throughout the school year:

- Pitt Make a Difference Day (the region's largest day of service, engaging more than 4,000 students in 2018)
- Martin Luther King Jr. Day of Service
- Take Your Child to Work Day
- Pitt Be A Good Neighbor Day

The **Office of Community and Governmental Relations** (CGR) builds, maintains, and grows relationships with the federal government, the Commonwealth of Pennsylvania, Allegheny County, the City of Pittsburgh, and community organizations and partners. They collaborate, communicate, and facilitate to bring the resources of the University to the community and the region. Whether it is research, clinical and academic programming, service in the community, student internships, or service-learning opportunities, CGR forms lasting relationships for a better Pitt and a better world.

A new place-based initiative launched by CGR are Community Engagement Centers (CECs). They reflect Pitt's deepening commitment to being a partner and resource to its surrounding urban neighborhoods, city, and region. CECs are being established in city neighborhoods to forge even stronger partnerships between Pitt's educational and research capabilities and community leaders who are working to help their neighborhoods thrive. The result is a strategy that will enrich the University's core educational mission, coordinate and enhance existing engagement efforts, and help to address some of the most enduring challenges of Pittsburgh's urban neighborhoods.

The approach used to develop the CECs has extensively engaged campus and community stakeholders to shape, together, a concept that ensures Pitt's academic mission of teaching and research is enriched and the neighborhoods in which the CECs are located derive meaningful benefits. Outreach was done with campus units who had longstanding community engagement missions, community leaders within the neighborhoods where CECs will be located and elected and public officials. The first Community Engagement Center is located in Homewood and the second will be located in the Hill District.

Programming at the CECs include:

- A computer lab to host training sessions to prepare candidates for Pitt employment opportunities, School of Information coding workshops, and STEM summer programming.
- A Wellness Pavilion that will offer services in occupational therapy, audiology, physical therapy, athletic training and sports medicine, nutrition and dietetics, and wellness and human performance.
- Mental health counseling services.
- Pro-bono legal assistance and legal workshops.
- Business development and acceleration programming offered by the Institute for Entrepreneurial Excellence and Joseph M. Katz Graduate School of Business MBA Fellows.
- Workshops and outreach activities in film studies, African American Poetry and Poetics, and more.

**The Pitt Community** has a long history of providing hundreds of hours of service to community partners in Oakland and throughout the region. These signature programs and activities include:

- Central Blood Bank Blood Drives: As a public service, the University partners with the Central Blood Bank of Pittsburgh to host blood drives throughout the year. Each donation can save up to three lives.
- Pitt Partnership for Food: More than twenty years ago, the University of Pittsburgh joined the Greater Pittsburgh Community Food Bank in the fight against hunger in the Pittsburgh Region.
- Pitt's People for Pets: Pitt's People for Pets helps feed pets in need. In collaboration with Animal Friends Chow Wagon, Pitt's People for Pets provides pet food to area food pantries to ensure that families no longer have to choose between feeding their pets or themselves.
- Pitt United Way Day of Caring: The University annually conducts a campaign to benefit community agencies through the United Way of Allegheny County. On average, nearly 300 faculty and staff give up a workday at the University to work for and with community-based organizations in neighborhoods adjacent to the University on projects identified by these organizations.
- Christmas Day at Pitt: Since 2006, Pitt and Sodexo have partnered with the Salvation Army of Western Pennsylvania to serve Christmas dinner to individuals and families in need. More than 250 volunteers from Pitt and Sodexo give time on Christmas Day to make this event possible.
- Produce to People: The second Thursday of each month, Pitt faculty, staff, and students volunteer at the Greater Pittsburgh Food Bank's Produce to People program.



## Pitt-Bradford

Pitt-Bradford offers more than 40 majors and 50 minors, concentrations, and pre-professional programs in areas ranging from athletic training and nursing to broadcast communications and computer information systems and technology. There are graduate programs in Nursing, Social Work, and Education.

Pitt-Bradford's accolades include:

- The Washington Monthly magazine recognized Pitt-Bradford as a top college for earning a Bachelor's degree and a "best bang for the buck" university.
- The Council for Aid to Education ranked Pitt-Bradford No. 4 on a list of colleges that devote the highest percentage of dollars to financial aid.
- The Obama administration recognized Pitt-Bradford as one of 13 public institutions for excelling in enrolling and graduating students who qualify for Pell grants.
- The Princeton Review found Pitt-Bradford was one of the most environmentally responsible colleges.
- The Princeton Review named Pitt-Bradford one of the Best Colleges in the Northeast for the 15th consecutive year.
- Pitt-Bradford was recognized as a College of Distinction for the fourth consecutive year.
- G.I. Jobs has named Pitt-Bradford a Military Friendly School for the ninth year in a row.
- The college research website [TheBestColleges.org](http://TheBestColleges.org) recognized Pitt-Bradford as one of the best 10 regional campuses in the United States.
- Due to the vision of Pitt-Bradford supporters of the 1960s, the valued generosity of the many donors over the past 50 years, the hard work of the faculty and staff, and the successful collaborations with officials on the Oakland campus, Pitt-Bradford has grown significantly. Today, Pitt-Bradford has nearly 1,600 students and about 10,000 alumni, from every state in the United States and several countries.

## PITT-BRADFORD SUPPORTS THE STATE ECONOMY

OVERALL ECONOMIC  
IMPACT OF  
PITT-BRADFORD  
ACROSS THE STATE  
WAS **\$75.1 MILLION.**

**\$75.1**  
million

**788**  
jobs

PITT-BRADFORD  
DIRECTLY OR  
INDIRECTLY SUPPORTED  
**788 JOBS**  
THROUGHOUT  
THE STATE OF PA.

PITT-BRADFORD  
GENERATED  
APPROXIMATELY  
**\$3.5 MILLION** IN  
STATE AND LOCAL  
GOVERNMENT REVENUES  
FOR THE STATE OF PA.

**\$3.5**  
million



### **Economic Impact**

The overall economic impact of the Pitt-Bradford operations on the state of Pennsylvania in 2018 was \$75.1 million (\$26.4 million direct impact and \$48.7 million indirect and induced impact).

### **Employment Impact**

Pitt-Bradford's total employment impact on the state of Pennsylvania was 788 jobs (364 direct jobs). As a result of its operations, Pitt-Bradford creates 424 indirect and induced jobs in the economy.

### **Government Revenue Impact**

Pitt-Bradford operations in Pennsylvania generate \$3.5 million per year in state and local tax revenue.

### **Community Benefits**

Pitt-Bradford serves students, faculty, and staff as well as the local community through activities and programs such as:

**Pitt-Bradford Arts** offers diverse performances, exhibits, and presentations to the campus and regional community. Most events take place within Blaisdell Hall, which is home for the arts on campus and also for the Division of Communication and the Arts Department. This state-of-the-art facility serves as the region's center for the arts.

**BRIDGES** is a program that enables qualified high school students an opportunity to attend college classes while they are still enrolled in high school and receive college credit at Pitt-Bradford. This program allows students to get a head start on earning college credits while experiencing what it is like to take a class with college students on Pitt-Bradford's campus.

**The Center for Rural Health Practice** maintains formal relationships with all Pitt campuses and schools and with the UPMC Health System, providing access to many of the nation's top health researchers. As the rural health focal point for the entire University system, the center works to engage researchers in rural health research and practice. Local communities serve as the testing grounds for national program models and for the development of rural health policy.

**The Energy Institute** educates undergraduate students and trains the workforce needed by the energy industry of the region around Bradford. The Institute does so by supporting industry in developing, establishing, and improving operating processes, as well as stimulating thinking throughout the region about renewable energy.

## Pitt-Greensburg

Pitt-Greensburg blends the best of big and small school environments: the resources of the University of Pittsburgh — one of the nation's most renowned research institutions — mixed with the individualized and immersive experiences of a small liberal arts college. Pitt-Greensburg has 1,500 full-time and part-time students, more than 10,000 alumni, 81 faculty, 29 undergraduate majors, 24 minors, and numerous pre-professional options.

With a student-to-faculty ratio of 18 to 1 and an average class size of 21, Pitt-Greensburg's award-winning faculty devote their attention to each student's success. Experiential learning opportunities and personalized support for both STEM and liberal arts students ensure relevant preparation for a modern career or continued education.

Pitt-Greensburg's awards and accomplishments include:

- Pitt-Greensburg was named a 2018 "Hidden Gem" for women pursuing STEM fields by College Raptor, a college planning website that helps families discover colleges based on personalized estimates of actual college costs.
- For two consecutive years (2016-17, 2017-18), Pitt-Greensburg has earned national recognition among the nation's Colleges of Distinction.
- For two consecutive years (2015, 2016), Pitt-Greensburg was named to Money Magazine's list of best college values in the nation.
- Pitt-Greensburg ranked No. 18 in the 2015 Best Bang for the Buck (Northeast schools).
- Since 2012, Pitt-Greensburg has been designated a Military Friendly School by Victory. Military Friendly is the standard that measures an organization's commitment, effort, and success in creating sustainable and meaningful benefits for the military community.
- Pitt-Greensburg placed 32nd on a list of 93 colleges in Pennsylvania identified as leaving students with low levels of student loan debt.

Less than an hour's drive from Pittsburgh, Pitt-Greensburg is situated in the Laurel Highlands. Pitt-Greensburg's lower tuition, coupled with generous financial aid and merit-based scholarships, puts a world-class education within reach. Seventy percent of incoming Pitt-Greensburg freshmen receive scholarships, totaling more than \$18 million every year.

In an attempt to address the nursing shortage impacting many regions in southwestern PA, Pitt-Greensburg, with the help of a local foundation, launched the first on-site nursing degree program in Westmoreland County. By 2020, this program will graduate 75 nurses annually. If 50 percent or more of these nurses stay in PA to practice, this program will make a significant impact on the region's nursing shortage.

## PITT-GREENSBURG SUPPORTS THE STATE ECONOMY

OVERALL ECONOMIC  
IMPACT OF  
PITT-GREENSBURG  
ACROSS THE STATE  
WAS **\$76.9 MILLION**.

**\$76.9**  
million

**810**  
jobs

PITT-GREENSBURG  
DIRECTLY OR  
INDIRECTLY SUPPORTED  
**810 JOBS**  
THROUGHOUT  
THE STATE OF PA.

PITT-GREENSBURG  
GENERATED  
APPROXIMATELY  
**\$3.8 MILLION** IN  
STATE AND LOCAL  
GOVERNMENT REVENUES  
FOR THE STATE OF PA.

**\$3.8**  
million





### **Economic Impact**

The overall economic impact of Pitt-Greensburg's operations on the state of Pennsylvania in 2018 was \$76.9 million (\$19.7 million direct impact and \$57.2 million indirect and induced impact).

### **Employment Impact**

The total employment impact of Pitt-Greensburg on the state of Pennsylvania was 810 jobs (323 direct jobs). As a result of its operations, Pitt-Greensburg creates 487 indirect and induced jobs in the economy.

### **Government Revenue Impact**

Pitt-Greensburg's operations in Pennsylvania generate \$3.8 million per year in state and local tax revenue.

### **Community Benefits**

Pitt-Greensburg offers benefits to the community through programs and activities that students, faculty, or staff participate in or offer to local community organizations such as:

**Center for Applied Research:** Comprised of students, faculty, and staff, the Center for Applied Research (CFAR) at Pitt-Greensburg performs the research and evaluation of data essential to determining solutions for community organizations.

**Center for the Digital Text:** The Center for the Digital Text promotes an intensive data mining/digital media development collaboration among faculty and students in outreach toward local and global communities.

**The Conference Place:** The Conference Place provides the appropriate space and setting for events including strategic management seminars, professional development workshops, youth camps, athletic tournaments, recognition banquets, and weekend retreats.

**Green Scholars:** The Green Scholar program partners undergraduates with faculty to perform collaborative research that typically results in publication and conference presentations.

**The Community Arts & Reintegration Project (CARP):** Described as a restorative-justice-based program, CARP is working to bring together community members and organizations, victims and victim advocates, and both recently released and currently incarcerated inmates to develop and construct murals to be placed on buildings in targeted cities throughout Westmoreland County. The goals of CARP are to develop a model of inmate re-entry into the community that lowers recidivism while building a sense of collective efficacy by giving all involved in the process and all who see the murals a feeling of pride in their community.

**Summer Science and Math Experience:** Developed collaboratively by science and education faculty members, the Summer Science and Math Experience (SSME) provides middle school students going into ninth grade with an opportunity to experience the wonder and excitement of the science and math fields.

## Pitt-Johnstown

Pitt-Johnstown offers a personalized learning environment and an outstanding record of student success. Pitt-Johnstown was founded in 1927 and is the first and largest regional campus of the University of Pittsburgh. Pitt-Johnstown serves as a vital knowledge center and the foremost contributor to the region's educational, social, cultural, and economic development.

Pitt-Johnstown provides study abroad opportunities, admission guarantees to many Pitt graduate programs and a connection to Real World Career Services and the Pitt Career Network. Pitt-Johnstown offers more than 70 academic programs in seven academic divisions.

The campus is a picturesque residential campus environment nestled in the Laurel Highlands and has many state-of-the-art facilities that support excellence in learning and contribute to student success inside and outside of the classroom.

Pitt-Johnstown's accomplishments and awards include:

- Best College in the Northeast by The Princeton Review for the 12th consecutive year, joining a select listing of colleges nationally.
- Pitt-Johnstown has been named to the 2015 President's Higher Education Community Service Honor Roll, which annually recognizes institutions of higher education that support exemplary community service programs and raise the visibility of effective practices in campus community partnerships.
- For the seventh year in a row, Pitt-Johnstown has been recognized by G.I. Jobs as a Military-Friendly School. The 2016 list honors the top 20 percent of colleges, universities, and trade schools that are doing the most to embrace the United States' military service members, veterans, and spouses as students and ensure their success on campus.
- Pitt-Johnstown received the Seven Seals Award in 2014 because of its outstanding support of veterans. The distinction is awarded by the Department of Defense's Office of Employers Support of the Guard and Reserve.
- Pitt-Johnstown has been named a Top 100 Organization by Pennsylvania Business Central for four years in a row.
- Results from the most recent Noel-Levitz Student Satisfaction Inventory show that Pitt-Johnstown continues to rate above its peers in quality of campus services, services to help students decide a career, and overall service to students.
- Pitt-Johnstown was cited by U.S. News & World Report in 2013 for building in-demand job skills.

From a petroleum engineering laboratory in Hong Kong to a humanitarian relief organization in Honduras, from an embassy in Barbados to Capitol Hill, graduates of Pitt-Johnstown have achieved professional and career success through the real-world preparation they received as students.

## PITT-JOHNSTOWN SUPPORTS THE STATE ECONOMY

OVERALL ECONOMIC IMPACT OF PITT-JOHNSTOWN ACROSS THE STATE WAS **\$138.9 MILLION**.

**\$138.9 million**

**1,518 jobs**

PITT-JOHNSTOWN DIRECTLY OR INDIRECTLY SUPPORTED **1,518 JOBS** THROUGHOUT THE STATE OF PA.

PITT-JOHNSTOWN GENERATED APPROXIMATELY **\$7.0 MILLION** IN STATE AND LOCAL GOVERNMENT REVENUES FOR THE STATE OF PA.

**\$7.0 million**



### **Economic Impact**

The overall economic impact of Pitt-Johnstown's campus operations on the state of Pennsylvania in 2018 was \$138.9 million (\$35.2 million direct impact and \$103.7 million indirect and induced).

### **Employment Impact**

The total employment impact of Pitt-Johnstown Campus in Pennsylvania was 1,518 jobs (636 direct jobs) in 2018. As a result of the University of Pitt-Johnstown's operations, 882 indirect and induced jobs are created in Pennsylvania.

### **Government Revenue Impact**

The University of Pitt-Johnstown's operations in Pennsylvania generate nearly \$7 million per year in state and local tax revenue.

### **Community Benefits**

The Johnstown campus offers benefits to its students, faculty, staff, and the surrounding community through programs or activities such as:

**CODE (Computational-learning Opportunities in a Digital Environment)** for the Commonwealth & Country project. As a part of this project Pitt-Johnstown is pioneering an ambitious effort to promote digital learning and is working to develop and support CODE-smart schools in the Johnstown area.

**"@ Your Service"** is an opportunity for civic participation in local and regional communities. It is a key component for students to get ready, get involved, make a difference, and change their world.

**Moxham Light-Up Night** is a holiday event in which more than 5,000 hours have been devoted since its launch in 2014. More than 21,000 lights illuminate the Park Avenue Playground in Johnstown's Moxham neighborhood annually.

**The John P. Murtha Center for Public Service and National Competitiveness**, on the Pitt-Johnstown campus, is a 7,400-square-foot center honoring the congressman's public service and legacy. An exhibit provides access to his Congressional Papers, a collection of personal documents and possessions donated to the University of Pittsburgh in 2010 by his wife, Joyce Murtha.

Pitt-Johnstown's annual **Great Americans Day Citizenship Forum** has celebrated the lives of a wide range of citizens, from Presidents and First Ladies to authors and professional athletes. Pieces of their lives provide models of civic virtue – the sacrifice of self-interest for the public good – that the nation's founders intended to be the glue of our republic. This series is intended to promote the American ideal of civic virtue central to citizenship and to remind us that the continued success of our society depends upon both individual and collective contributions.

The **Pasquerilla Performing Arts Center** (PPAC) has become the region's premier cultural destination since 1991. The PPAC is a cultural, artistic, educational, social, and economic resource for the Greater Johnstown area. The 42,000-square-foot multipurpose facility includes a mainstage auditorium theatre that comfortably seats 1,000 and attracts about 21,000 annually. The Studio Theatre, often referred to as the Black Box, seats 200 and is often used for receptions and gathering.

## Pitt-Titusville

In 2018, University of Pittsburgh trustees approved a new vision for the Pitt-Titusville campus. At the board's annual February meeting, members moved to enlist state, county, and educational partners to create a vibrant, multi-institution education and training hub that will serve the six-county region.

### PITT-TITUSVILLE SUPPORTS THE STATE ECONOMY

OVERALL ECONOMIC  
IMPACT OF  
PITT-TITUSVILLE  
ACROSS THE STATE  
WAS **\$20.0 MILLION**.

**\$20.0**  
million

**229**  
jobs

PITT-TITUSVILLE  
DIRECTLY OR  
INDIRECTLY SUPPORTED  
**229 JOBS**  
THROUGHOUT  
THE STATE OF PA.

PITT-TITUSVILLE  
GENERATED  
APPROXIMATELY  
**\$.95 MILLION** IN  
STATE AND LOCAL  
GOVERNMENT REVENUES  
FOR THE STATE OF PA.

**\$.95**  
million

The Education and Training Campus Hub will operate as a shared campus, providing a range of education and workforce training programs. The campus hub's collaborative design will streamline services and concentrate expertise while lowering operating costs. It also will offer partners greater latitude in tailoring education and training opportunities to meet regional needs, which is an essential element in advancing the economic health and vitality of the region and the Commonwealth. With the board's approval in place, the University will begin working with the Commonwealth of Pennsylvania as well as community, business, and public-sector groups to establish three founding partners for the Education and Training Campus Hub. These three core partners will be Pitt, a training center, and a community college.

Under the campus hub model, partners will offer specialized programs with active input from regional employers, a move that will directly address the region's education and training needs. Pitt-Titusville will continue to offer programs for traditional college-age students in addition to developing programs for nontraditional students that may include online, evening, intensive, and executive learning options. Pitt students in Titusville will have the option to complete programs at the Education and Training Campus Hub or seamlessly transfer to other University of Pittsburgh campuses to advance their education.



### **Economic Impact**

The overall economic impact of Pitt-Titusville's operations on the state of Pennsylvania in 2018 was \$20.0 million (\$6.2 million direct impact and \$13.8 million indirect and induced).

### **Employment Impact**

The total employment impact of Pitt-Titusville in Pennsylvania is 229 jobs (113 direct jobs) in 2018. As a result of Pitt-Titusville's operations, 116 indirect and induced jobs are created in Pennsylvania.

### **Government Revenue Impact**

Pitt-Titusville's operations in Pennsylvania generate nearly \$950,000 per year in state and local tax revenue.

### **Community Benefits**

The Johnstown campus offers benefits to its students, faculty, staff, and the surrounding community through programs or activities such as:

**Walk Against Racism:** The YWCA and Pitt-Titusville team up to hold a walk every year to raise awareness and address issues related to race in the Titusville community. Titusville is a very diverse community. The walk is held to take notice of racism and to unite the community.

**United Way:** Pitt-Titusville students, faculty, and staff also conduct service projects through the United Way each year.

Use of **Pitt-Titusville facilities** provides the appropriate space and setting for a variety of groups including strategic management seminars, professional development workshops, youth camps, athletics tournaments, recognition banquets, and weekend retreats.

## Pennsylvania Child Welfare Resource Center – Mechanicsburg, PA

The Pennsylvania Child Welfare Resource Center (PACWRC) is a collaborative effort of the University of Pittsburgh, School of Social Work, the Pennsylvania Department of Human Services, and the Pennsylvania Children and Youth Administrators. This center is a leader in advocating for an enhanced quality of life for Pennsylvania's children, youth, and families. In partnership with families, communities, public and private agencies, the Resource Center prepares and supports exceptional child welfare professionals and systems through education, research, and a commitment to best practice.

### PENNSYLVANIA CHILD WELFARE RESOURCE CENTER SUPPORTS THE STATE ECONOMY

OVERALL ECONOMIC  
IMPACT OF  
PACWRC  
ACROSS THE STATE  
WAS **\$36.4 MILLION.**

**\$36.4**  
million

**247**  
jobs

PACWRC DIRECTLY  
OR INDIRECTLY  
SUPPORTED  
**247 JOBS**  
THROUGHOUT  
THE STATE OF PA.

PACWRC GENERATED  
APPROXIMATELY  
**\$1.5 MILLION** IN  
STATE AND LOCAL  
GOVERNMENT REVENUES  
FOR THE STATE OF PA.

**\$1.5**  
million

The Resource Center provides county Children and Youth Agencies with individualized training and technical assistance. These services are provided through ongoing collaborative partnerships with County Children and Youth Agencies, the Department of Human Services, Pennsylvania Children and Youth Administrators, private provider agencies, children, youth, families, community members, and other system partners.

Through cross-system collaboration, the Resource Center facilitates county specific assessment, planning, implementation, evaluation and monitoring that leads to improved knowledge, skills and practices. This method helps ensure that the training and technical assistance needs of Child Welfare professionals are met across the state and better prepares our system to facilitate the outcomes of safety, permanence, and well-being of the children, youth, and families served.

#### Economic Impact

The overall economic impact of the PACWRC's operations on the state of Pennsylvania in 2018 was \$36.4 million (\$18.9 million direct impact and \$17.5 million indirect and induced).

#### Employment Impact

The total employment impact of the PACWRC on the state is 247 jobs (125 direct jobs). As a result of the University of Pittsburgh-Pennsylvania Child Welfare Resource Center operations in the state, 122 indirect and induced jobs are created.

#### Government Revenue Impact

PACWRC's operations in Pennsylvania generate nearly \$1.5 million per year in state and local tax revenue.



## APPENDIX A: DEFINITION OF TERMS

**Study Year:** Fiscal Year 2017-2018, July 1, 2017-June 30, 2018

**Total Economic Impact:** The total economic impact of an institution includes both the direct impact and the indirect impact generated in the economy as a result of the institution.

**Direct Economic Impact:** Direct impact includes items such as institutional spending, employee spending, and spending by visitors to the institution.

**Indirect Economic Impact:** Indirect impact, also known as the multiplier effect, includes the re-spending of dollars within the local economy by vendors/suppliers and households.

**Multiplier Effect:** The multiplier effect is the additional economic impact created as a result of the institution's direct economic impact. Local companies that provide goods and services to an institution increase their purchasing by creating a multiplier.

**Direct Tax Payments:** Direct tax payments made by an institution to a unit of government.

**Indirect Tax Payments:** Government revenue that is collected by governmental units in addition to those paid directly by an institution, including taxes paid directly by employees of the institution, visitors to the institution, and vendors who sell products to the institution.

**Direct Employment:** Total number of employees at the institution based on total jobs.

**Indirect Employment:** Indirect employment is the additional jobs created, as a result of the organization's economic impact. Local companies that provide goods and services to an organization increase their number of employees as purchasing increases, thus creating an employment multiplier.

## APPENDIX B: METHODOLOGY

### IMPACT ON STATE BUSINESS VOLUME AND GOVERNMENT REVENUE

The University of Pittsburgh's campuses are major employers in the state and, as such, major generators of personal income for state residents. Businesses operating within Pennsylvania in the wholesale, retail, service, and manufacturing sectors benefit from the direct expenditures of the institution and their faculty, staff, students, and visitors on goods and services. Additionally, many of these "direct" expenditures are re-circulated in the economy as recipients of the first round of income re-spend a portion of this income with other businesses and individuals within Pennsylvania.

### METHODOLOGY AND DATA UTILIZED FOR THE ESTIMATION OF THE ECONOMIC IMPACT OF UNIVERSITY OF PITTSBURGH SYSTEM

The economic impact of the University of Pittsburgh and the Regional Campuses was estimated using IMPLAN (IMpact Analysis for PLANning), an econometric modeling system developed by applied economists at the University of Minnesota and the U.S. Forest Service. The IMPLAN modeling system has been in use since 1979 and is currently used by more than 500 private consulting firms, university research centers, and government agencies. The IMPLAN modeling system combines the U.S. Bureau of Economic Analysis' (U.S. BEA) Input-Output Benchmarks with other data to construct quantitative models of trade flow relationships between businesses and between businesses and final consumers. From this data, one can examine the effects of a change in one or several economic activities to predict its effect on a specific state, regional, or local economy (impact analysis). The IMPLAN input-output accounts capture all monetary market transactions for consumption in a given time period. The IMPLAN input-output accounts are based on industry survey data collected periodically by the U.S. BEA and follow a balanced account format recommended by the United Nations.

IMPLAN's Regional Economic Accounts and the Social Accounting Matrices were used to construct state-level multipliers, which describe the response of the state economy to a change in demand or production as a result of the activities and expenditures of the University of Pittsburgh overall as well as the regional campuses individually. Each industry that produces goods or services generates demand for other goods and services. This demand is multiplied through a particular economy until it dissipates through "leakage" to economies outside the specified area. IMPLAN models discern and calculate leakage from local, regional, and state economic areas based on workforce configuration, the inputs required by specific types of businesses, and the availability of both inputs in the economic area. Consequently, economic impacts that accrue to other regions or states as a consequence of a change in demand are not counted as impacts within the economic area.

The model accounts for substitution and displacement effects by deflating industry-specific multipliers to levels well below those recommended by the U.S. Bureau of Economic Analysis. In addition, multipliers are applied only to personal disposable income to obtain a more realistic estimate of the multiplier effects from increased demand. Importantly, IMPLAN's Regional Economic Accounts exclude imports to an economic area, so the calculation of economic impacts identifies only those impacts specific to the economic impact area, in this case the state of Pennsylvania. IMPLAN calculates this distinction by applying Regional Purchase Coefficients (RPC) to predict regional purchases based on an economic area's particular characteristics. The RPC represents the proportion of goods and services that will be purchased regionally under normal circumstances, based on the area's economic characteristics described in terms of actual trade flows within the area.

### MODEL INPUTS AND DATA SOURCES

Model inputs included actual FY 2018 expenditures provided by the University of Pittsburgh and each regional campus.



## APPENDIX C: FAQs REGARDING ECONOMIC IMPACT ASSESSMENT

### What is economic impact?

Economic impact begins when an organization spends money. Economic impact studies measure the direct economic impact of an organization's spending, plus additional indirect spending in the economy as a result of direct spending.

Economic impact is not related to dollars collected by institutions, their profitability or even their sustainability, since all operating organizations have a positive economic impact when they spend money and attract spending from outside sources.

Direct economic impact measures the dollars that are generated within the state of Pennsylvania due to the presence of the University of Pittsburgh.

This includes spending on goods and services with vendors within the state, and spending of Pitt's employees and visitors, as well as the business volume generated by businesses within Pennsylvania that benefit from the University of Pittsburgh spending. It is important to remember that not all dollars spent by the University of Pittsburgh stay in Pennsylvania. Dollars that "leak" out of the state in the form of purchases from out-of-state vendors are not included in the University of Pittsburgh's economic impact on the state.

The total economic impact includes the "multiplier" of spending from companies that do business with the University of Pittsburgh. Support businesses may include lodging establishments, restaurants, construction firms, vendors, temporary agencies, etc. Spending multipliers attempt to estimate the ripple effect in the state economy where the spending occurs. For example, spending by a University of Pittsburgh campus with local vendors provides these vendors with additional dollars that they re-spend in the local economy, causing a "multiplier effect."

### What is the multiplier effect?

Multipliers are a numeric way of describing the secondary impacts stemming from the operations of an organization. For example, an employment multiplier of 1.8 would suggest that for every 10 employees hired in the given industry, eight additional jobs would be created in other industries, such that 18 total jobs would be added to the given economic region. The multipliers used in this study range from 1.8 to 2.0.

The Multiplier Model is derived mathematically using the input-output model and Social Accounting formats. The Social Accounting System provides the framework for the predictive Multiplier Model used in economic impact studies. Purchases for final use drive the model. Industries that produce goods and services for consumer consumption must purchase products, raw materials, and services from other companies to create their product. These vendors must also procure goods and services. This cycle continues until all the money is leaked from the region's economy. Three types of effects are measured with a multiplier: the direct, the indirect, and the induced. The direct effect is the known or predicted change in the local economy that is to be studied. The indirect effect is the business-to-business transactions required to satisfy the direct effect. Finally, the induced effect is derived from local spending on goods and services by people working to satisfy the direct and indirect effects.

- Direct effects take place only in the industry immediately being studied.
- Indirect effects concern inter-industry transactions. Because the University of Pittsburgh and the Regional Campuses are in business, they have a demand for locally produced materials needed to operate.
- Induced effects measure the effects of the changes in household income. Employees of the University of Pittsburgh, individually each of the regional campuses, and suppliers purchase from local retailers and restaurants.
- Total Economic Impacts are the total changes to the original economy as the result of the University of Pittsburgh's operations. i.e., Direct effects + Indirect effects + Induced effects = Total Economic Impacts.

### **What methodology was used in this study?**

IMPLAN (IMpact analysis for PLANning) data and software. Using classic input-output analysis in combination with regional specific Social Accounting Matrices and Multiplier Models, IMPLAN provides a highly accurate and adaptable model for its users. The IMPLAN database contains county, state, ZIP code, and federal economic statistics that are specialized by region, not estimated from national averages, and can be used to measure the effect on a regional or local economy of a given change or event in the economy's activity.

### **What is employment impact?**

Employment impact measures the direct employment (employees, staff, faculty, administration) plus additional employment created in the economy as a result of the operations of the University of Pittsburgh.

Indirect and induced employment impact refers to other employees throughout the region that exist because of the University's economic impact. In other words, jobs related to the population – city services (police, fire), employees at local hotels and restaurants, clerks at local retail establishments, and residents employed by vendors used by the University of Pittsburgh.

### **What is the difference between direct and indirect taxes?**

Direct tax dollars include sales taxes and net corporate income taxes paid directly by the institution to the state, while indirect taxes include taxes paid to the state by vendors that do business with the University of Pittsburgh.

### **Is this a one-time impact or does the impact repeat each year?**

The results presented in the University of Pittsburgh economic impact study are generated on an annual basis. The economic impact in future years can either be higher or lower based on number of employees, students, capital expansion, increases in external research and state appropriations.

### **What are Tripp Umbach's qualifications to perform an Economic Impact Study for the University of Pittsburgh?**

Tripp Umbach is the national leader in providing economic impact analysis to leading healthcare organizations, universities and academic medical centers. We have completed more than 150 economic impact studies over the past 25 years for clients such as: The Pennsylvania State University, The Ohio State University, the University of Washington, the University of Iowa, the University of Alabama at Birmingham, Cleveland Clinic, University of Florida Shands HealthCare, the University of North Carolina Hospitals, the University of Pennsylvania Medical Center, the University of Pittsburgh Medical Center, and the Ohio State University Medical Center.





# University of Pittsburgh

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The economic impact analysis included in this report is based on data provided by the University of Pittsburgh to Tripp Umbach. All analysis completed by Tripp Umbach.