



With the largest network of overseas offices of any state in the U.S., Pennsylvania's Office of International Business Development (OIBD) is committed to supporting Pennsylvania companies by working with

them to increase their export sales and encouraging foreign companies to invest in Pennsylvania.





Pennsylvania's Assets

- Stable Economy
 Large, growing and diverse economy
- Comprehensive Infrastructure
 Transportation, water resource, energy
- Strategic Location
 Central to U.S and Canadian businesses and consumers
- Modern Workforce
 Well-educated, highly skilled
- Diversified Industries
 Highly diversified with a strong manufacturing base
- World-class Education
 Hundreds of world-class institutions of higher education
- Game-changing Resources
 Supply and demand, Marcellus Shale, manufacturing



We are the 22nd Largest Economy in the World

Pennsylvania's Gross State Product - USD \$603.87 billion



Larger than:



Sweden

\$525b



Norway

\$499b



Poland

\$489b



50 Indian-Owned companies in Pennsylvania

Providing 1,376 jobs – 24% are Manufacturers



India ranks 17th for the total number of firms in PA

Top 10 Indian-Owned firms in PA

	PA Jobs	Mfg/Svc
- Mindteck, Inc	230	Svc
- ISGN Fulfillment	200	Svc
Services, Inc.		
- GTL (USA), Inc.	134	Svc
- Bilcare, Inc.	122	Mfg/Svc
- Manugraph Americas	110	Mg
- Tata America Intl Corp	75	Svc
- Apollo Metals, Ltd.	50	Mfg
- Art Sargent, Inc.	50	Mfg
- Aserdiv, Inc.	50	Mfg/Svc
- Niit (USA), Inc.	45	Svc



Major Multi Nationals in Pennsylvania





































Indian Companies Growing in PA

There are 50 Indian companies – both large firms and growing tech firms in PA, employing more than 1,100 people.

- Tata Steel, Arcelor-Mittal
- Chambai Fertilisers and Chemicals
- Genpact (back office support)
- Unilog (ecommerce solutions)
- Caliber Technologies (software for life sciences industry)













Recent Successful Indian Projects to PA











Indian Investment into PA

Wipro

Project Requirements:
Facility near Volvo
Construction



Result: Wipro established their manufacturing facility in Chambersburg, creating 74 jobs and investing over \$9.7 million into PA.

Denali

Project Requirements:

Manufacturing space
for expansion near
current Pittsburgh facility



Result: Denali expanded their presence in Pennsylvania in the Pittsburgh region by relocating to a new facility, creating 55 new jobs, retaining 21 existing jobs and investing over \$9.3 million into PA.



Pennsylvania: A Global Economy

Nearly

\$81 billion

2012 Imports

Top Imports Include:

Crude oil
Cellular phones
Medicaments
Coffee
Airplane and
helicopter parts
Footwear
Women's trousers

Ranks among the

Top 10

states in the U.S. for Exports

Major Imports from:

India

*

China

Canada

Nigeria

Germany

ON COLUMN TO SERVICE

Israel



Source: U.S. Census Bureau

Nearly

\$39



Top Exports metute:

Nucleic acids
Civilian aircraft
Vaccines
Motorcycles
Diesel locomotives
Articles of plastic



Strategic Location

In Pennsylvania, it's easy and convenient to reach both in-country customers as well as those abroad.



3 major ports



250,000 lane miles of highways



6 international airports



5,600 miles of rail lines





Transportation and Infrastructure

Strategic Access to U.S. Markets

A keystone to U.S. markets, Pennsylvania is located within 500 miles of 40 percent of the U.S. population and purchasing power, including six of the 10 largest markets and 60 percent of Canada's population.

Convenient Location

Between the financial markets of New York City and the regulation hub of Washington D.C.





Leading the Way to Energy Independence

- Home to the 2nd largest energy field in the world
- 2nd in the U.S. for electricity generation
- 2nd in the U.S for natural gas production
- 4th in the U.S. for energy production
- Domestically produced energy is leading to more affordable energy bill for all PA consumers





Infrastructure - Water Resources

- ▶ 86,000 miles of streams and rivers
- ▶ 120 miles of shoreline



► Nearly 4,000 lakes, ponds and reservoirs

In Pennsylvania, groundwater is about

30x more abundant



than all surface water combined.



Leading the Way to Energy Independence



2nd
in the nation
for electricity
generation



2nd
in the nation
for natural gas
production



4th
in the nation
in energy
production



2nd in the nation for nuclear generation



9th in the nation for total solar capacity



15th in the nation in total wind capacity installed

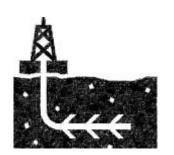


4th in the nation for coal production



19th in the nation for crude oil production

Home to the 2nd largest energy field in the world





Infrastructure - Energy Resources

Domestically produced energy is leading to more affordable energy bills for all Pennsylvania consumers.

- Wholesale electricity reduced 40% in the past five years
- ► Gas rates down 50%
- A reliable electric grid free of disruptions
- Dependable and affordable public transportation
- Cost-effective shipping and transportation of goods





Shale Gas & the Plastics Industry



PA is the 10th largest chemical producing state



Ships \$7.8 billion in products around the world



PA's 4th largest manufacturing industry is the Chemicals industry



57% higher average manufacturing wage of \$88,660



Generates \$3.7 billion in payroll annually



Provides more than 126,400 jobs both directly & indirectly



Invests \$943 million to build & update equipment & facilities



Generates \$1.04 billion in state, local & federal taxes



Marcellus and Utica Shale Gas

With the 2nd largest energy field in the world, Pennsylvania is on the verge of a new industrial revolution.

- Pennsylvania ranked 4th in shale industry economic contribution for 2010
- 17.5 billion cubic feet of natural gas produced per day
- Plastics and rubber products are directly linked to the natural gas industry.
 Pennsylvania ranks 5th in the country for both plastics shipment and in value added to the plastics industry

IMPACT MEASURES

793 billion cubic feet

Pennsylvania Marcellus Shale production in first half of 2012

\$633 million

Amount Pennsylvania consumers saved during 2010

Nearly 1:2

Return on investment for every \$1 invested by Marcellus Shale producers

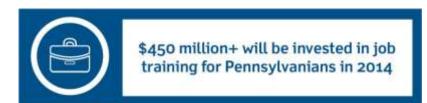
In 2010

\$11.2 billion increase in economic activity and 140,000 jobs supported



A World-Class Workforce







4 of the top 50 universities in the country

- More than 40% of Pennsylvanians between the ages of 25 and 34 have college degrees
- PA ranks in the top 10 in the number of adults with college degrees employed in high-level occupations
- The State ranks 10th in the number of postsecondary degrees awarded
- The commonwealth is first in the U.S. in terms of net migration of students into the state for postsecondary education
- Each year, Pennsylvania's world-class colleges and universities attract more than 60,000 students from across the U.S. and around the world



Advanced Manufacturing & Materials

Supportive Business Climate

- Broad-based business tax reforms
- State agency regulatory reforms
- \$55 million R&D Tax Credit
- Growing skilled talent & job matching
- Tools to accelerate innovation

Major sectors include:

- Transportation
- Metal machining and fabrication
- Pharmaceuticals
- Chemicals and plastics

Emerging markets include:

- Energy production and the natural gas supply chain
- Nano-materials
- 3-D printing

IMPACT MEASURES

12,100 manufacturing jobs created in 2011

\$70+ billion value added by the industry to the state economy each year

569,000+ employed in PA manufacturing in 2012 189,300 employment related to manufacturing goods exports in 2009



Life Sciences Leadership



- 5th in the U.S. and 2nd in the Mid-Atlantic for higher education Research &Development expenditures
- 5th in the U.S. for state agency R&D expenditures
- 4th in the U.S. for life sciencerelated patents
- More than 1,800 research, testing and medical labs
- Eight Pennsylvania universities are categorized by the Carnegie Foundation as having "Very High" or "High" research activity



Medical Device Manufacturing



Nearly 1,900 companies employ more than 31,000.



Pennsylvania ranks 4th in medical technology employment in the U.S.



Pennsylvania received the 4th highest amount of National Institutes of Health funding in 2013—\$1.38 billion.



Pennsylvania exhibits the highest job multiplier for medical technology industry in the country (3.57).

Ben Franklin Technology Partners

- \$14.7 million in 174 companies
- Attracted an additional \$525 million in post-Ben Franklin financing
- 132 patents and software copyrights awarded to client companies

Life Science Greenhouses

- Invested more than \$67.8 million in more than 133 projects since 2001
- More than \$3 billion in private funds leveraged
- 175 life-saving patient care products brought to market



Technology

- Pennsylvania has a robust incubator system, strategic programs, an abundance of research institutions and institutions of higher education
- Pittsburgh and Philadelphia are among the top 15 in the U.S. for Tech Startup Investments in 2012
- Pennsylvania was ranked 5th in technology and innovation by CNBC's "America's Top States for Business" (2012)





Creative Industries

- Videogame Growth Initiative (VGI) Philadelphia is a project started by several game developers and professionals to develop, promote, and support the growth of the interactive software entertainment industry in the region.
- Harrisburg University, Carnegie Mellon University and Drexel University have established a consortium of universities to promote the interactive media industry in Pennsylvania.
- Pennsylvania has Drexel University Ranked 3rd in North America for Game Design Degrees by the Princeton Review.
- The University of Pennsylvania is the only Ivy League school offering a graduate degree in Game Programming.

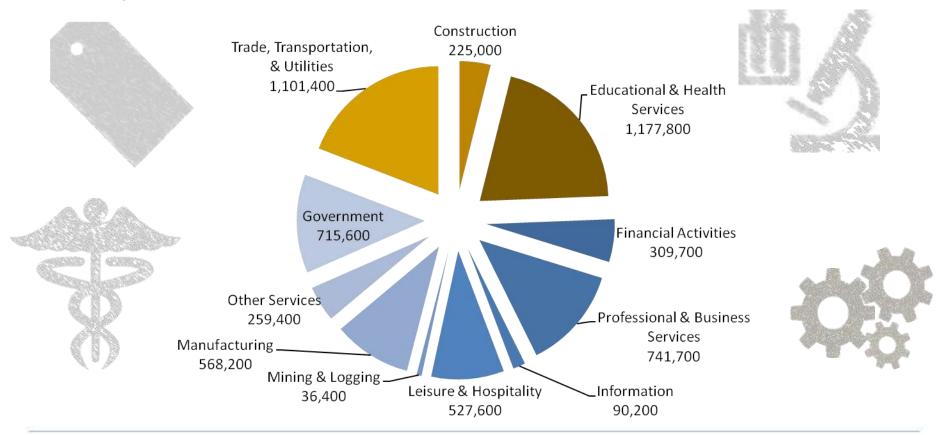
Ranked 1st in the U.S. for the highest growth rate in art-related industries

4 Top 50
Colleges & PA has
Universities
in the U.S. accredited film schools



GSP Diversity in Industry Structure

Pennsylvania is home to a mature and robust mix of industries.



Source: Bureau of Economic Analysis; values in millions of 2012 dollars

PENNSYLVANIA. BUILT TO ADVANCE.



Education and Training Hub

#6

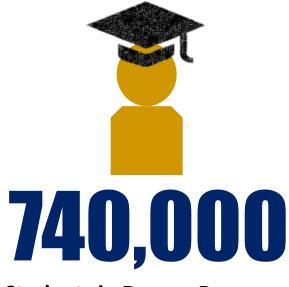
Open Doors (www.iie.org/opendoors) ranks Pennsylvania as the sixth largest host state for international students with a total of over 33,000 students in 2012. These students are estimated to spend more than \$1.07 billion in the Commonwealth



257

Degree Granting
Higher Education Institutions





Students in Degree Programs

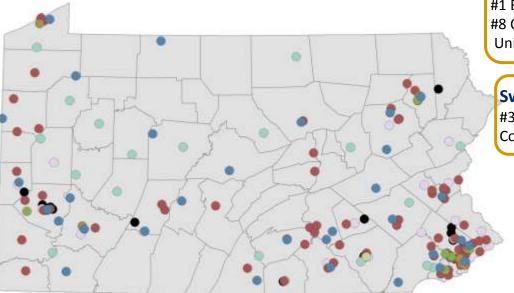


Numerous nationally recognized institutions of Higher

Education

Carnegie Mellon University

#1 Computer Science Graduate Program #7 Business School #8 Engineering School



University of Pennsylvania

#1 Business School #8 Overall National University



Swarthmore College

#3 Liberal Arts College



Haverford College

#9 Liberal Arts College



Type of School

- Community College
- State University
- State-Related Commonwealth University
- College of Technology

- Private Two-Year College
- Private State-Aided Institution
- Private College and University
- Theological Seminary

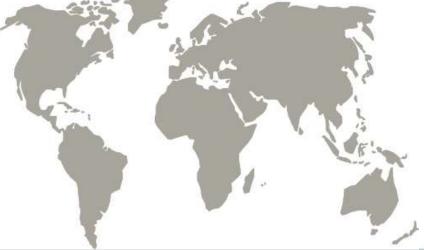


Impact of International Students

- Pennsylvania attracts more than 33,000 foreign students to study in PA
- India is the 2nd leading country of origin for foreign students in Pennsylvania, accounting for 15.8% of all international students enrolled in the state.
- By 2020, it is expected that India will be the top country of origin for all international students studying in the U.S.

International students in Pennsylvania support more than 17,500 full-time jobs in the commonwealth

 The net contribution of international students and their families to the Pennsylvania economy exceeds \$1 billion in tuition and living expenses alone





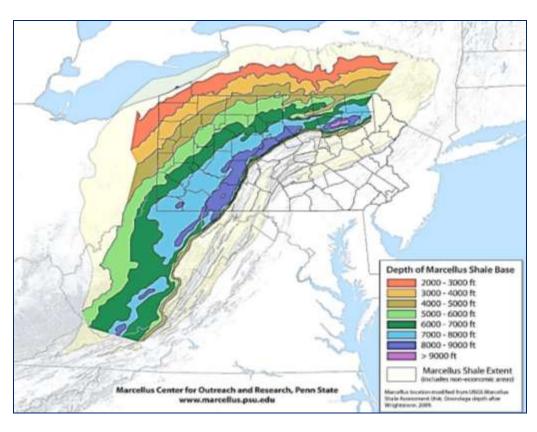
A Game Changer

The Marcellus Shale formation has created tremendous economic opportunities across Pennsylvania.

The U.S. Geological Survey recently estimated that the formation contained:

- 38 trillion cubic feet of recoverable natural gas
- ▶ 940 million barrels of oil.
- 8 million barrels of natural gas liquids like ethane and propane

Beneath the Marcellus is the Utica Shale, with additional gas, oil and liquids.



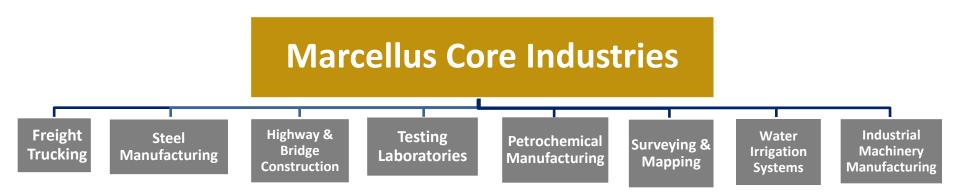
Big Indian Player in the Energy Market

Reliance Energy in partnership with Atlas Energysignificant holdings near Pittsburgh



Extended Supply Chain

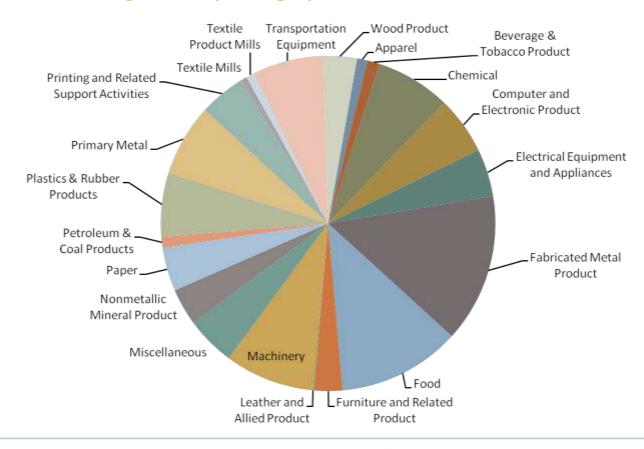
Thirty different industries have been identified that directly support the Marcellus Shale core industries. Together, these industries employ more than 200,000 individuals.





Diversity of Manufacturing

Pennsylvania's manufacturing industry is highly diversified.





PA is a great place to do business...

- Largest international investment and trade network in the U.S.
- Reduced business taxes by more the \$2 billion since 2004
- Proximity to low cost source of energy
- Strong commitment to Indian market:-First US state to open a full time investment & trade office in India
- Superior market access to Northeast and Midwest U.S. and eastern Canada
- Good transportation with direct international flights
- Strong technology sector
- Access to some of the best colleges and universities in the world with a program specially aimed at attracting Indian students
- Solid service by state and regional partners
- PA is the fastest growing state for FDI



Pennsylvania Trade & Investment Office - India

201, Infantry Court

130, Infantry Road

BENGALURU -560 001

INDIA

Phone +91-80-22868732

Fax +91-80-22868719

E mail: paindiaoffice2@gmail.com;

www.newPA.com

