

**Governor Chris Christie
Lt. Governor Kim Guadagno**

New Jersey's Life Science Workforce



**The Division of Labor Market & Demographic Research
New Jersey Department of Labor and Workforce Development
October 2010**



What is the Life Science Supercluster?

- Specialized manufacturing
 - Pharmaceutical and medical
 - Navigational, measuring and other control instruments
 - Medical instruments and supplies
- Scientific research and development services

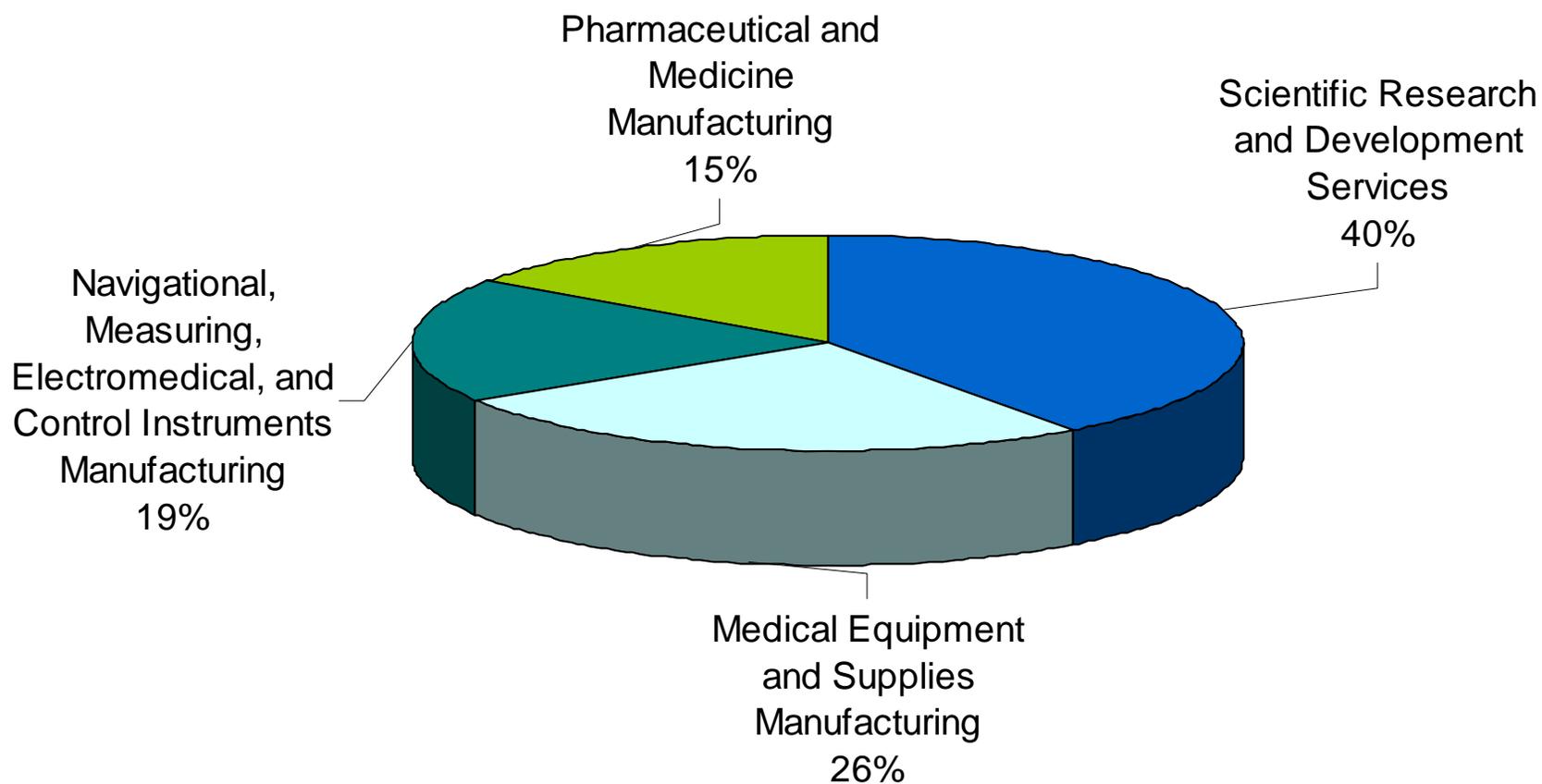


Life Science Performance in New Jersey

- Analysis shows that Life Science in New Jersey is very competitive compared to the nation as a whole
- The average Life Science salary is about \$90,000
- There are over 1,700 Life Science establishments in New Jersey



Life Science Establishments by Industry

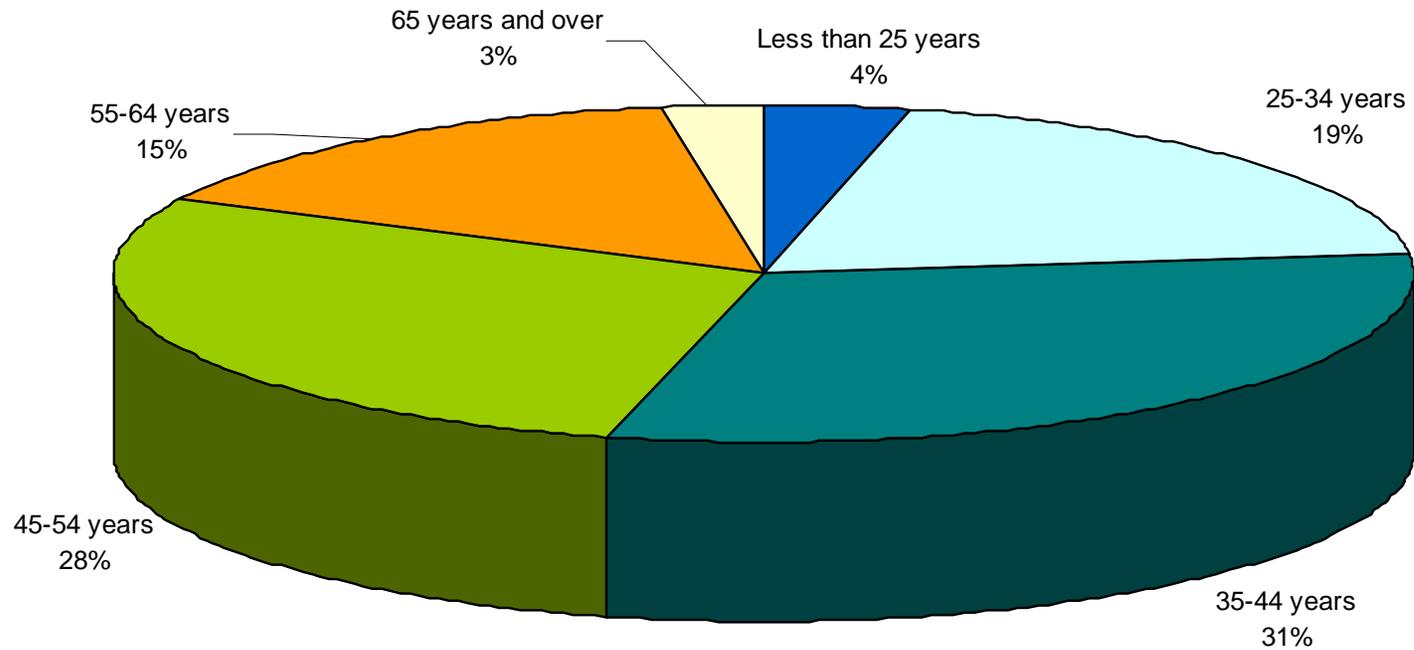


Source: Quarterly Census of Employment and Wages, Third Quarter 2008



Experience at All Levels

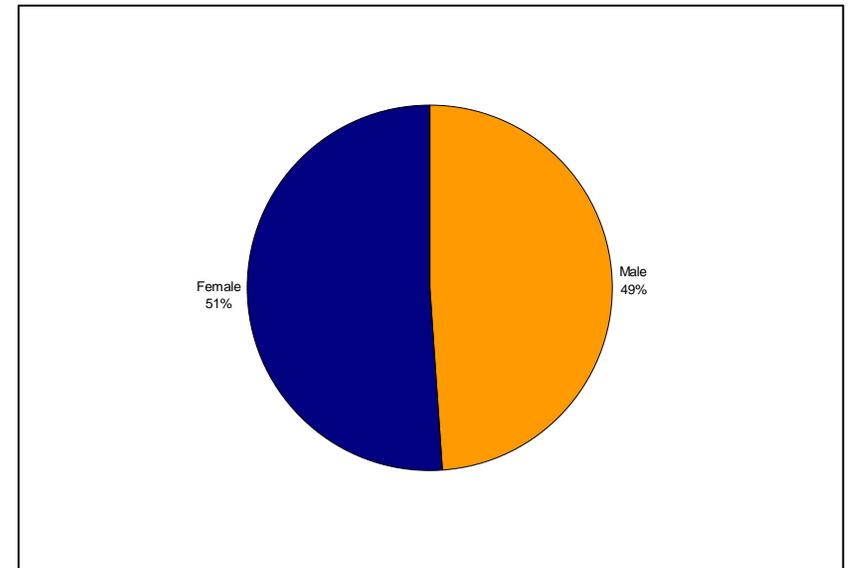
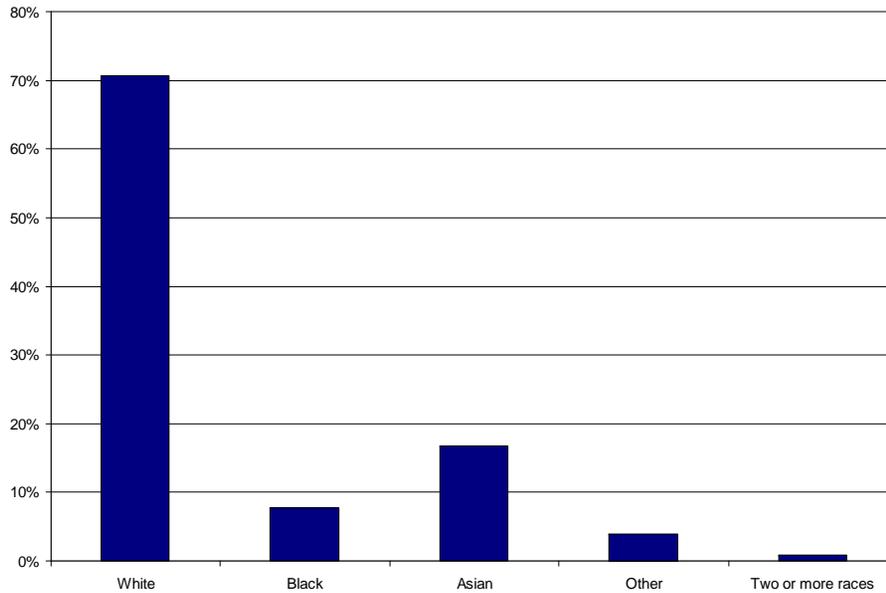
Life Science workers by age



Source: 2008 American Community Survey Public Use Microdata



Diversity: Race and Gender in Life Science

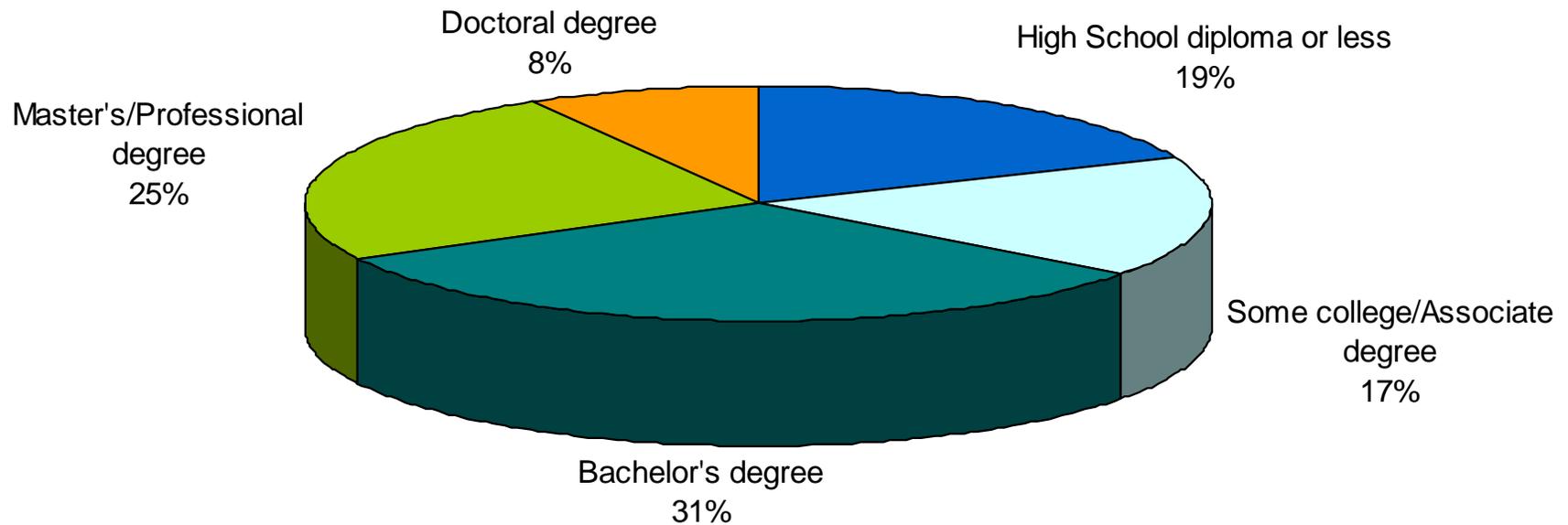


- Over nine percent of Life Science workers are Hispanic.

Source: 2008 American Community Survey Public Use Microdata



Highly Skilled Workforce

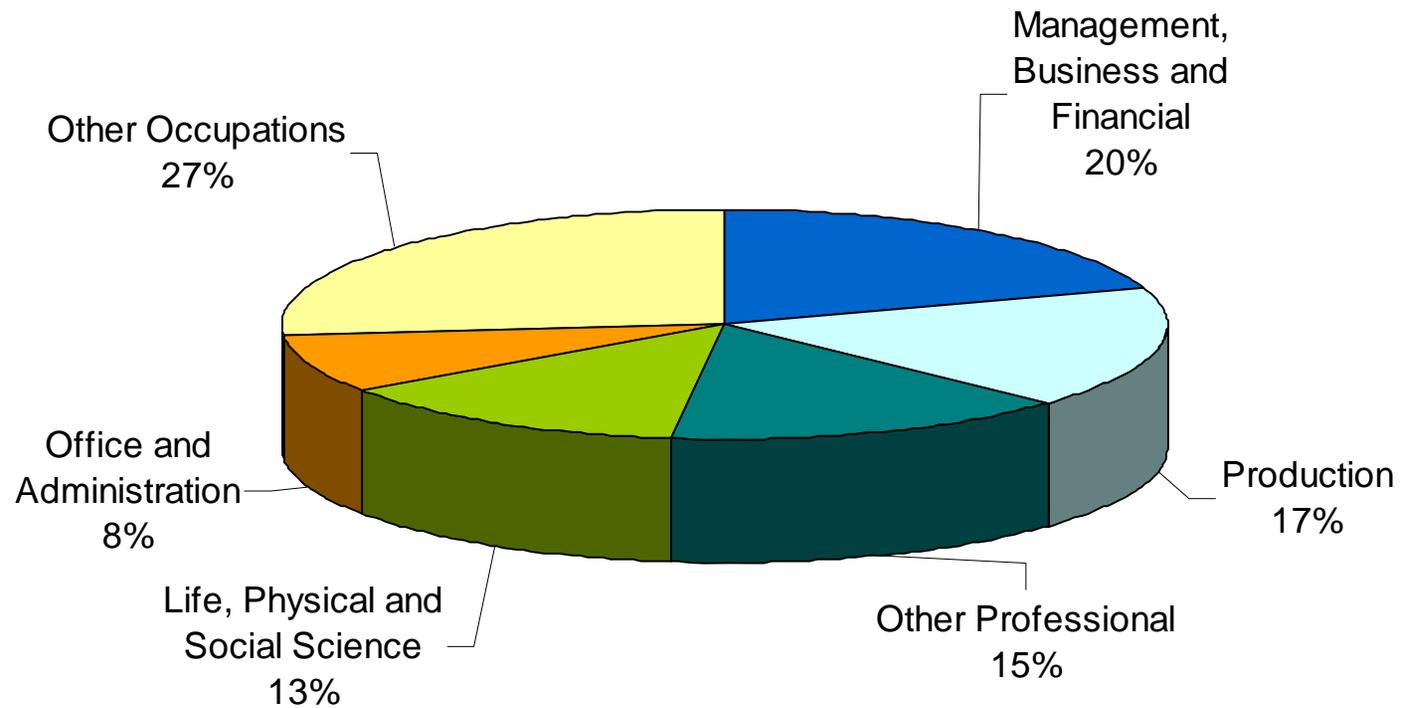


- **Almost two-thirds of Life Science workers have at least a Bachelor's degree**
- **One-third has a Master's degree or higher**

Source: 2008 American Community Survey Public Use Microdata



Occupational Distribution of Life Science Workers



Source: LWD, OES Program, 2009



Staffing Pattern

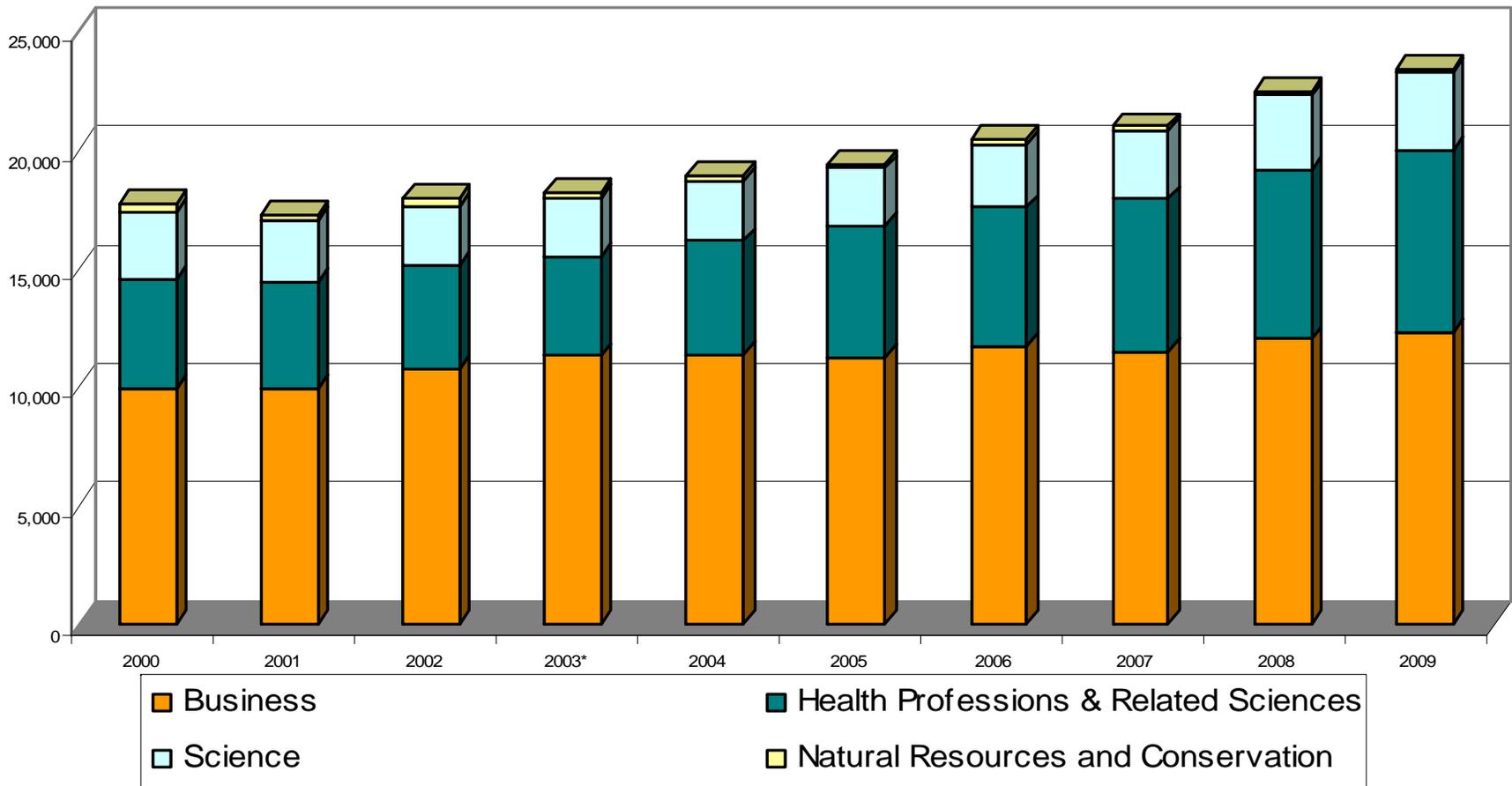
Occupational	Employment	Percent of Total	Education / Training
Chemists	3,300	3.5%	Bachelor's degree
Packaging and Filling Machine Operators and Tenders	3,050	3.3%	Short-term on-the-job training
Biochemists and Biophysicists	2,400	2.6%	Doctoral degree
Computer Software Engineers, Systems Software	2,100	2.3%	Bachelor's degree
Natural Sciences Managers	2,000	2.2%	Bachelor's or higher degree, plus work experience
Mixing and Blending Machine Setters, Operators, and Tenders	1,850	2.0%	Moderate-term on-the-job training
Executive Secretaries and Administrative Assistants	1,600	1.7%	Work experience in a related occupation
Medical Scientists, Except Epidemiologists	1,550	1.7%	Doctoral degree
Chemical Technicians	1,500	1.6%	Associate degree
Computer and Information Systems Managers	1,300	1.4%	Bachelor's or higher degree, plus work experience
Inspectors, Testers, Sorters, Samplers, and Weighers	1,150	1.2%	Moderate-term on-the-job training
Industrial Production Managers	1,150	1.2%	Work experience in a related occupation
Engineering Managers	1,050	1.1%	Bachelor's or higher degree, plus work experience
Accountants and Auditors	1,050	1.1%	Bachelor's degree
Electronics Engineers, Except Computer	1,050	1.1%	Bachelor's degree
Sales Reps., Wholesale and Manufacturing, Technical and Scientific Products	1,000	1.1%	Work experience in a related occupation
Mechanical Engineers	1,000	1.1%	Bachelor's degree
Secretaries, Except Legal, Medical, and Executive	1,000	1.1%	Moderate-term on-the-job training
Computer Systems Analysts	950	1.0%	Bachelor's degree
Chemical Equipment Operators and Tenders	950	1.0%	Moderate-term on-the-job training
Total selected occupations	30,900	33.2%	
All others	62,100	66.8%	

Source: LWD, OES Program, 2009



Life Science Education in New Jersey

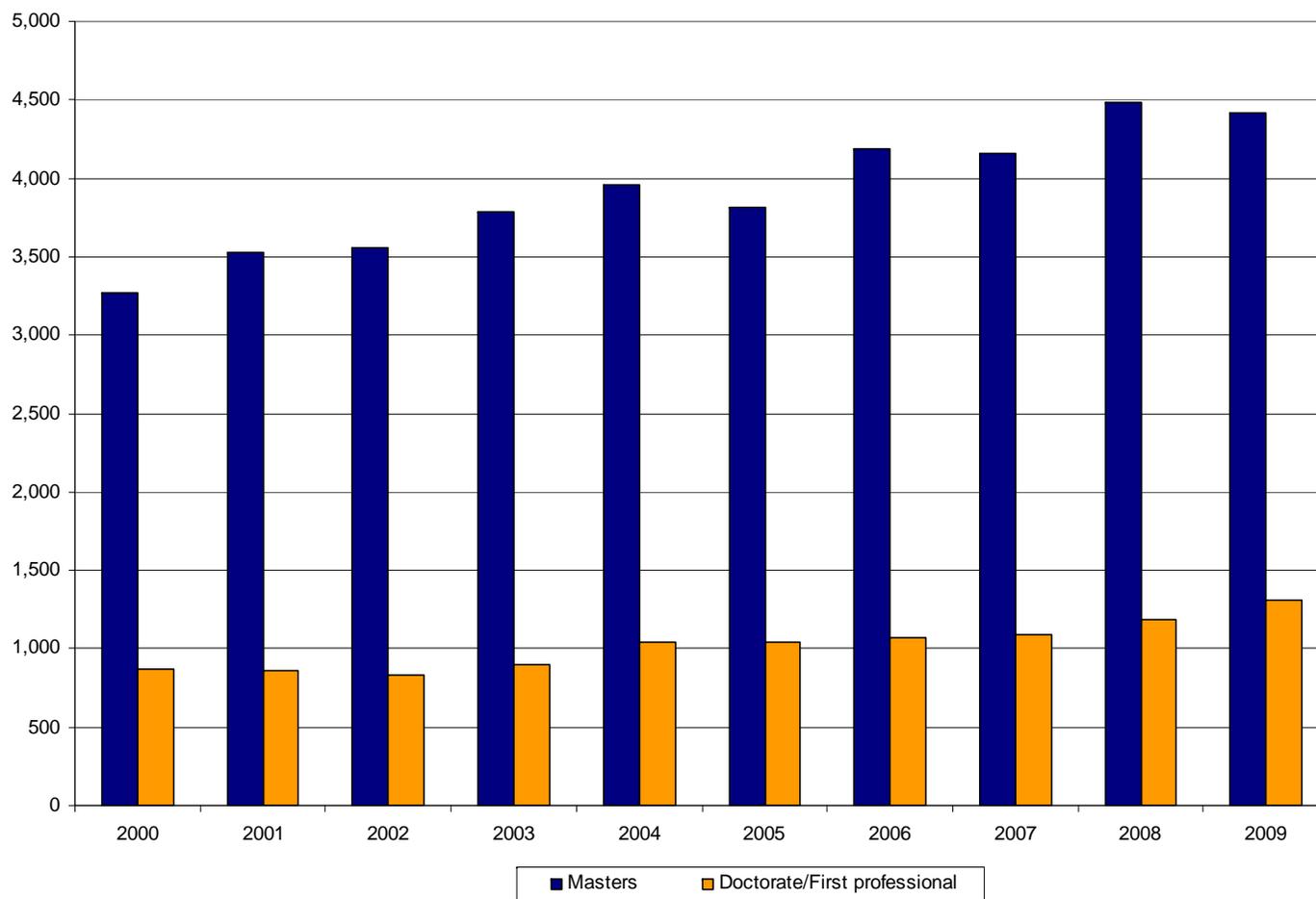
Degrees Awarded by Field, 2000-2009



Source: New Jersey Commission on Higher Education, Integrated Postsecondary Data System (IPEDS)



Graduate Life Science Degrees, 2000-2009

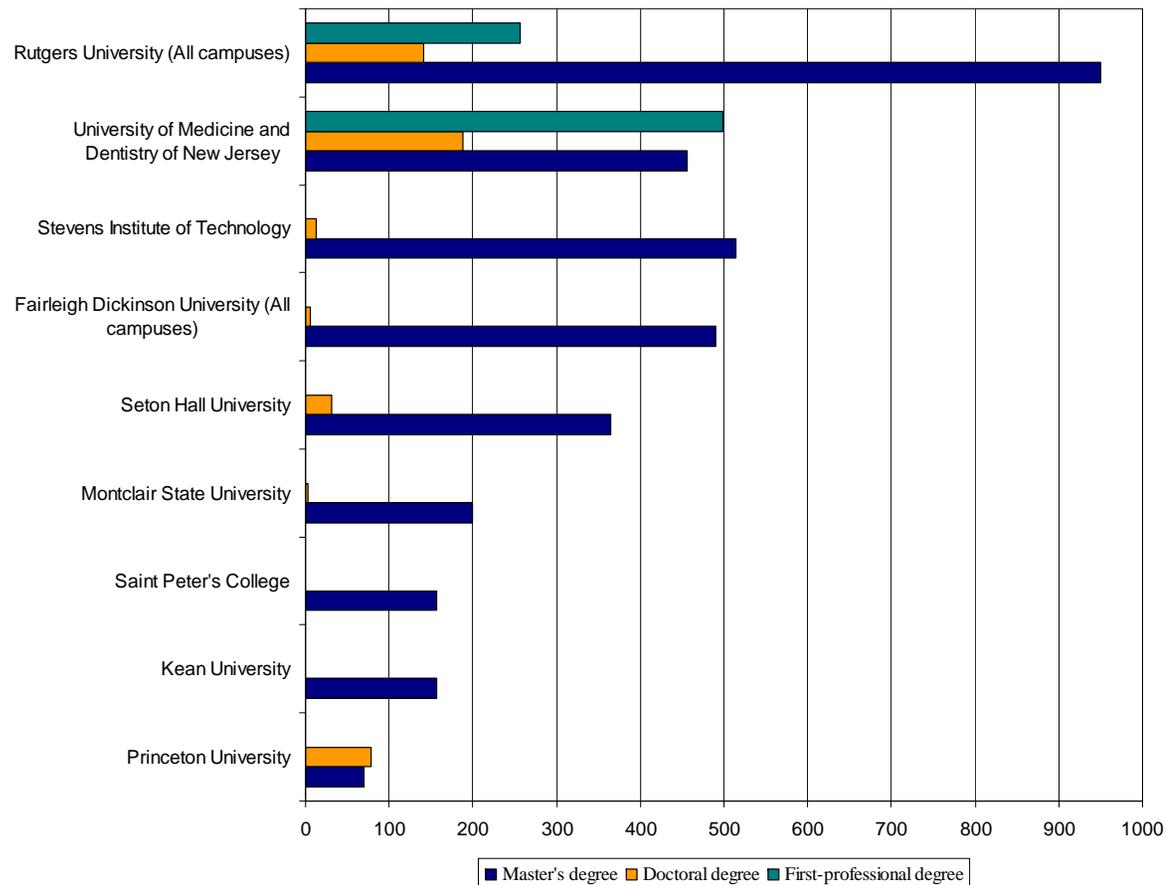


Source: New Jersey Commission on Higher Education, Integrated Postsecondary Data System (IPEDS)



Graduate Degrees in Life Science by Institution, 2009

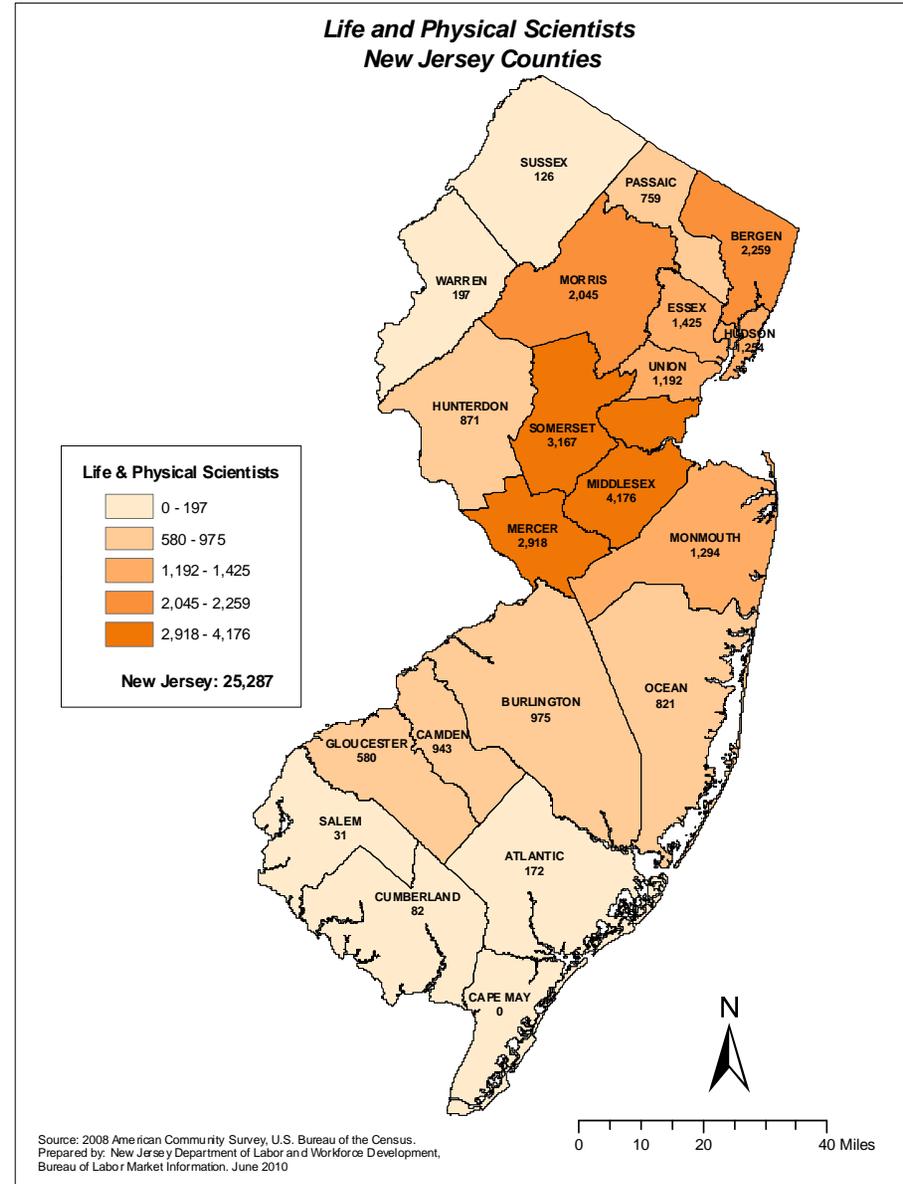
(Institutions awarding 149 or more graduate degrees)



Source: New Jersey Commission on Higher Education, Integrated Postsecondary Data System (IPEDS)

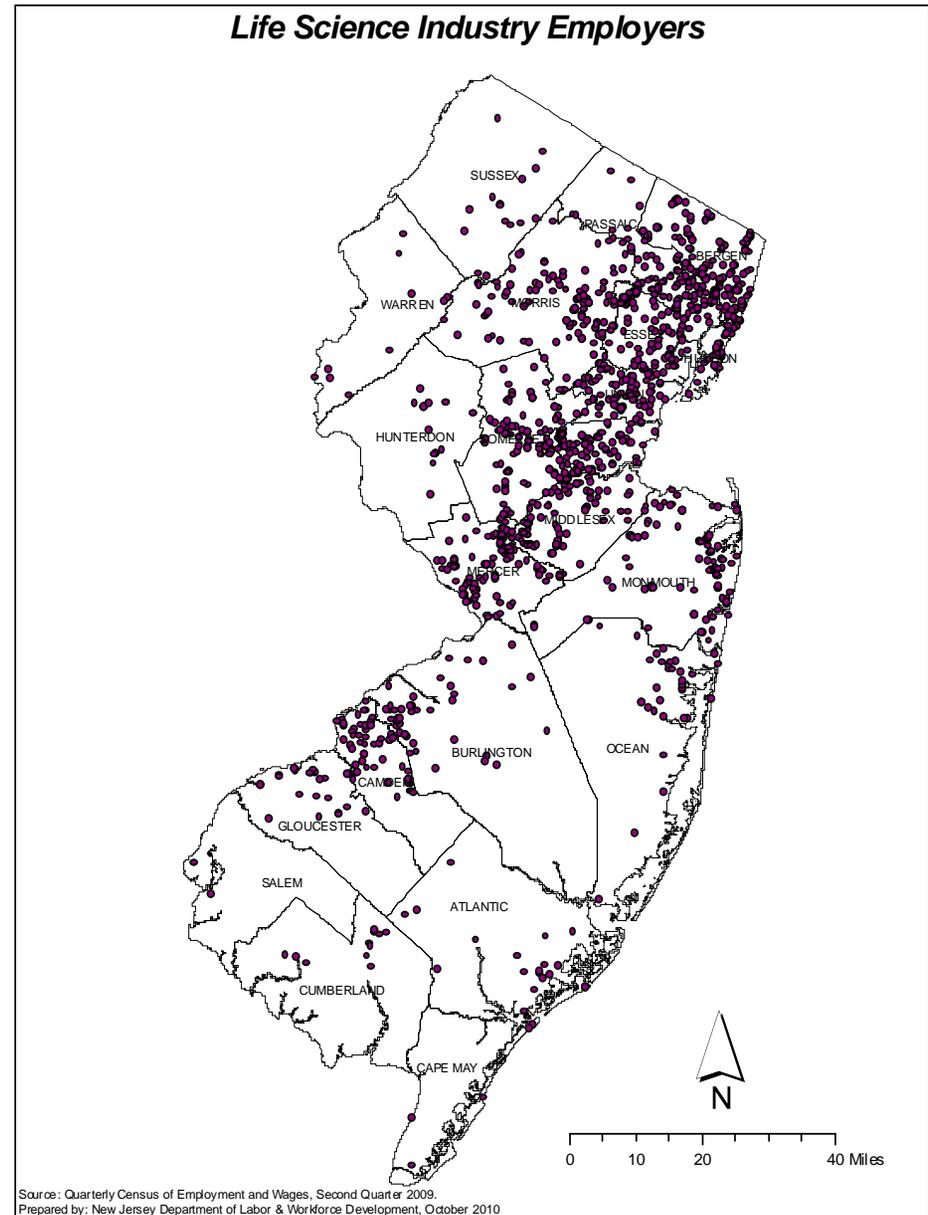


Geographic Distribution of Talent: Scientists by Residence





Life Science Sites in New Jersey





Labor Shed: Professional, Scientific & Technical Services

The high concentration of red and orange colors in the map indicates a high density of workers in Professional, Scientific & Technical Services sector

*Professional, Technical and Scientific Services
Labor Shed*

