

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

New Jersey's Information and Communication Technology Workforce



**The Division of Labor Market & Demographic Research
New Jersey Department of Labor and Workforce Development
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What is the Information and Communication Technology (ICT) Supercluster?

- ICT includes the following industries
 - Information
 - Some Advanced Manufacturing
 - Some Logistics
 - Business Infrastructure-related industries
- The cluster is based on the definition developed by the Organization for Economic Cooperation and Development (OECD)

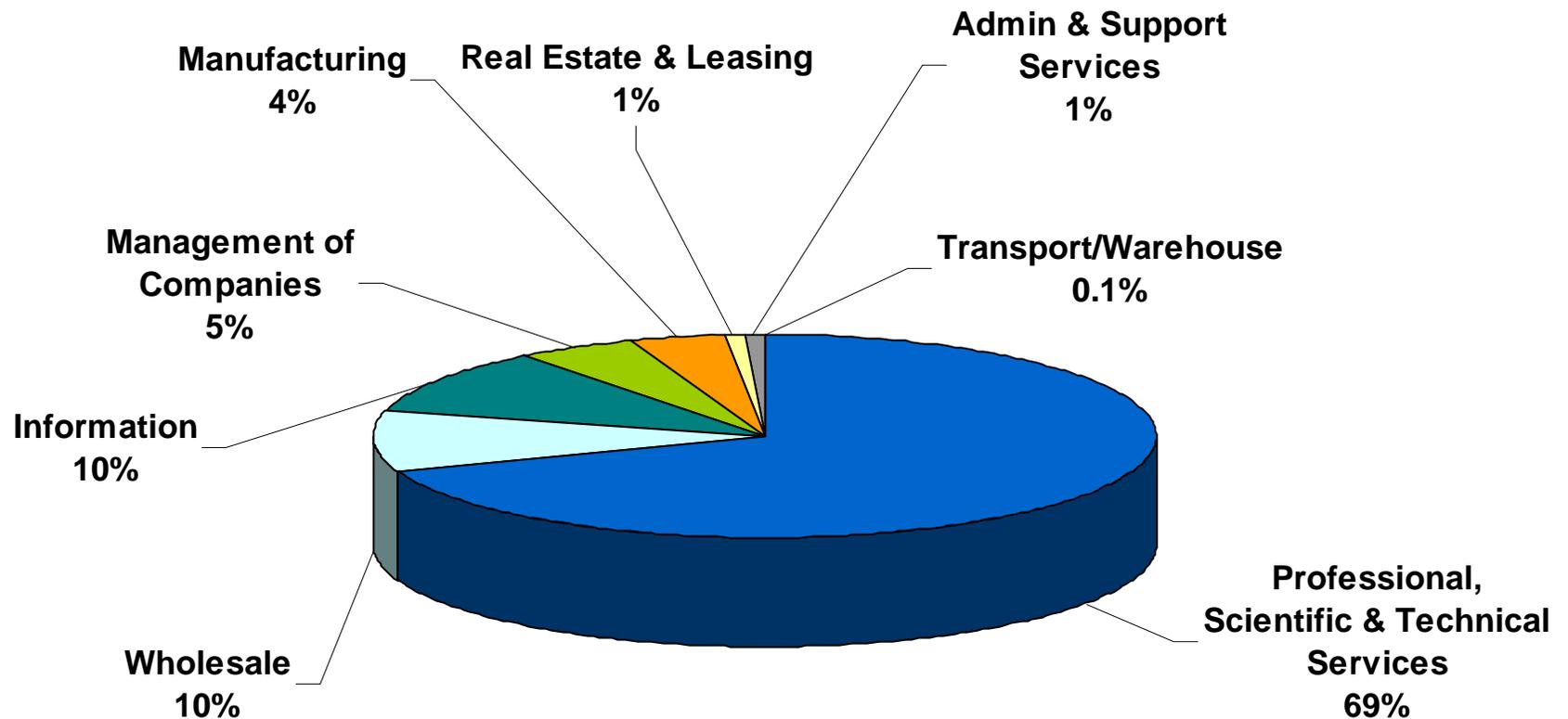


Information and Communication Technology Performance in New Jersey

- New Jersey is one of the top ten states in high-tech industry concentration in the United States
- Analysis shows that ICT in New Jersey is competitive compared to the nation as a whole
- There are over 31,000 ICT establishments in New Jersey, including almost 5,300 with employment of ten or more.



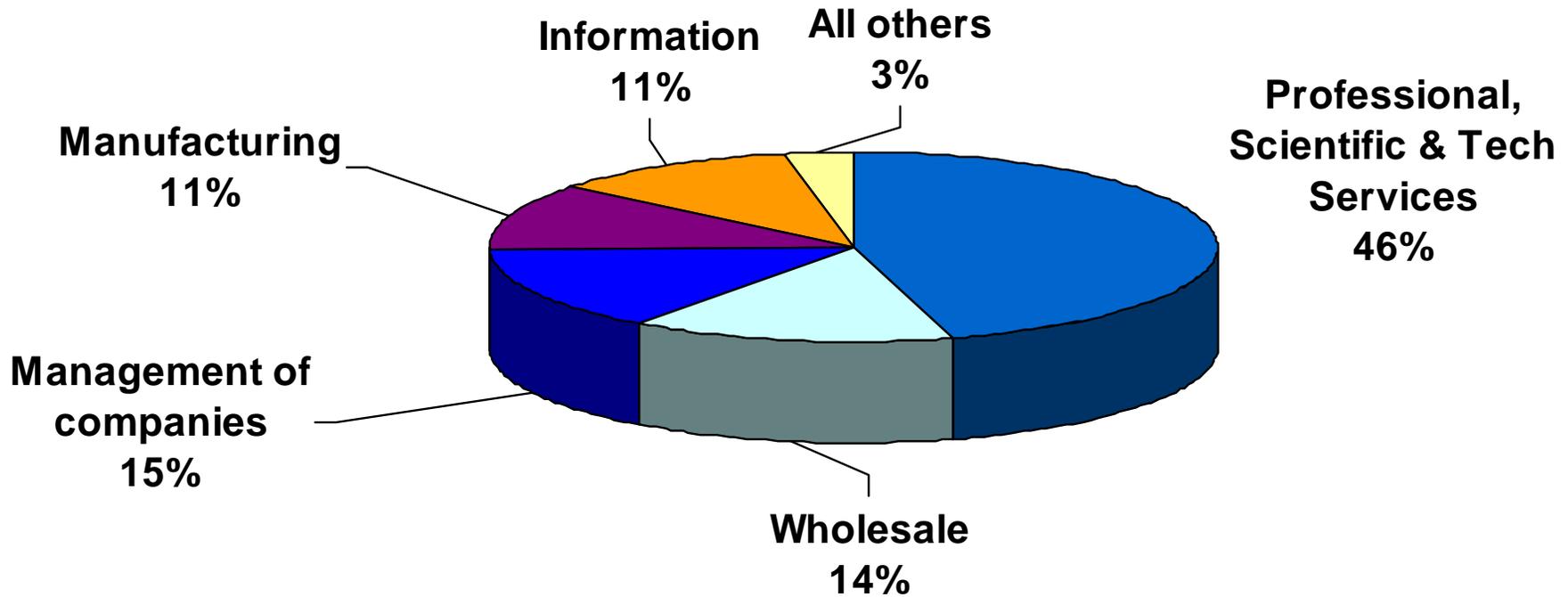
ICT Establishments in New Jersey by Industry



Source: U.S. Census, County Business Patterns, 2008



ICT Workforce by Industry

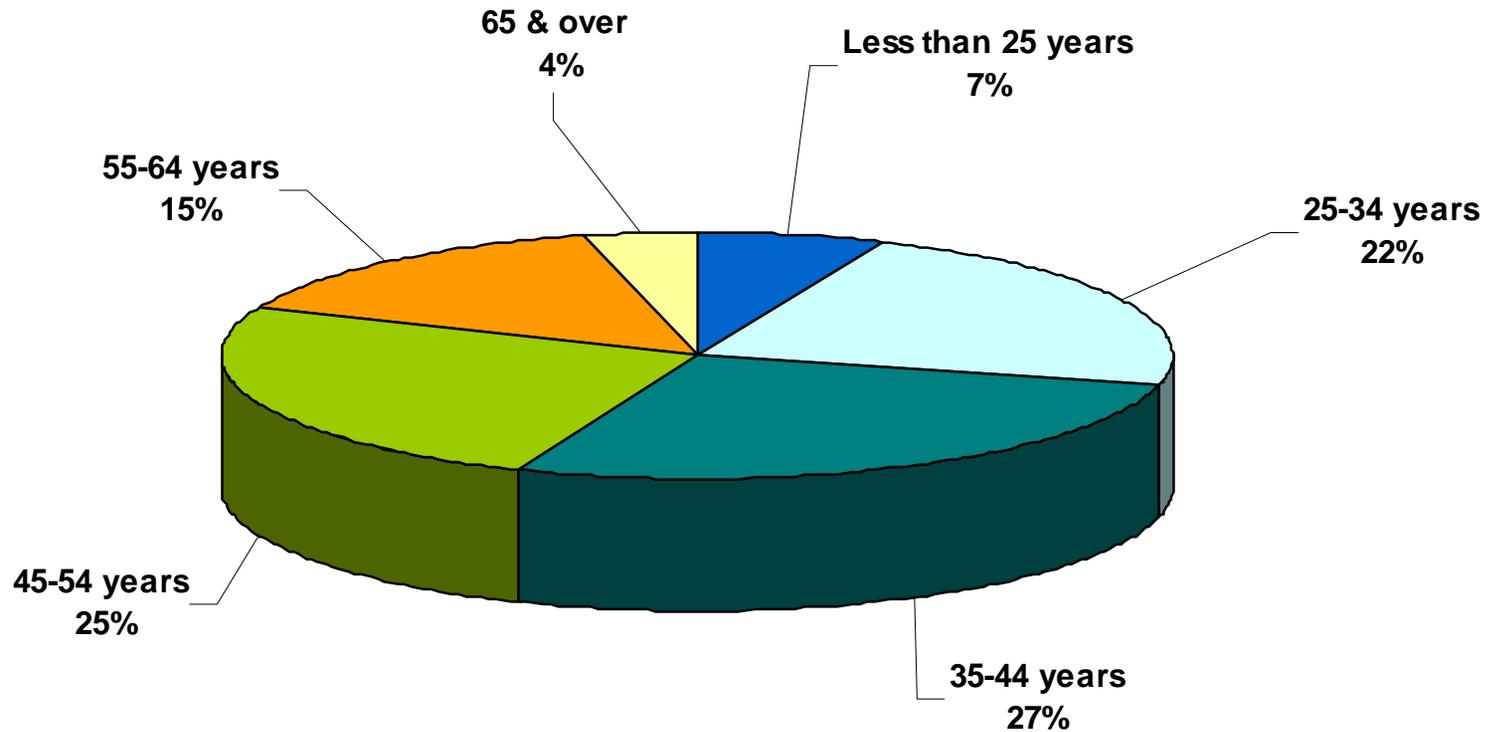


Source: U.S. Census Bureau Local Employment Dynamics Program, 2009: 3rd quarter



Experience at All Levels

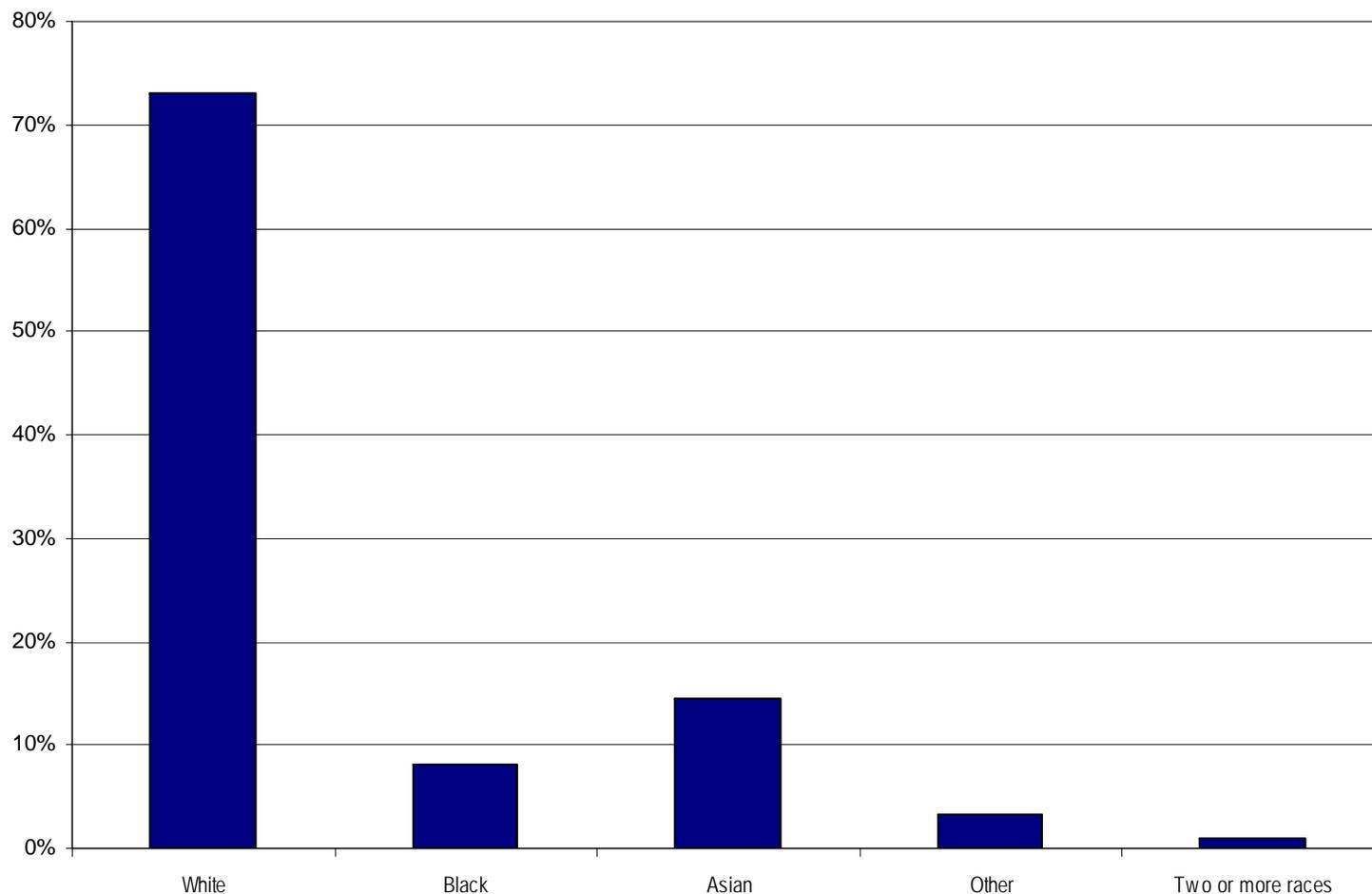
ICT workers by age



Source: 2008 American Community Survey Public Use Microdata



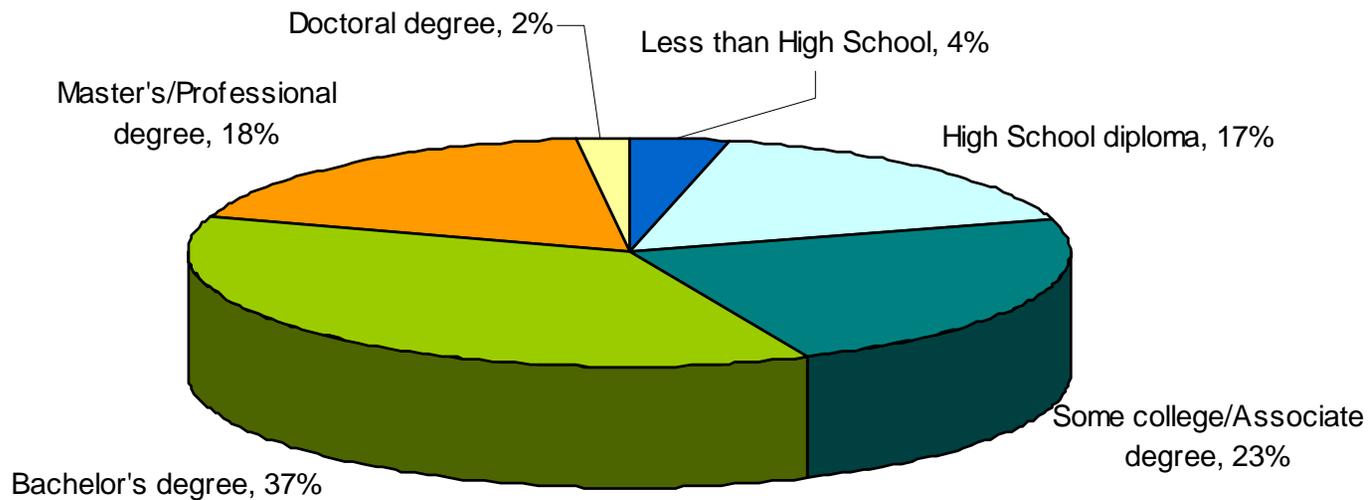
Diversity in ICT Workforce



Source: 2008 American Community Survey Public Use Microdata



Highly Skilled Workforce

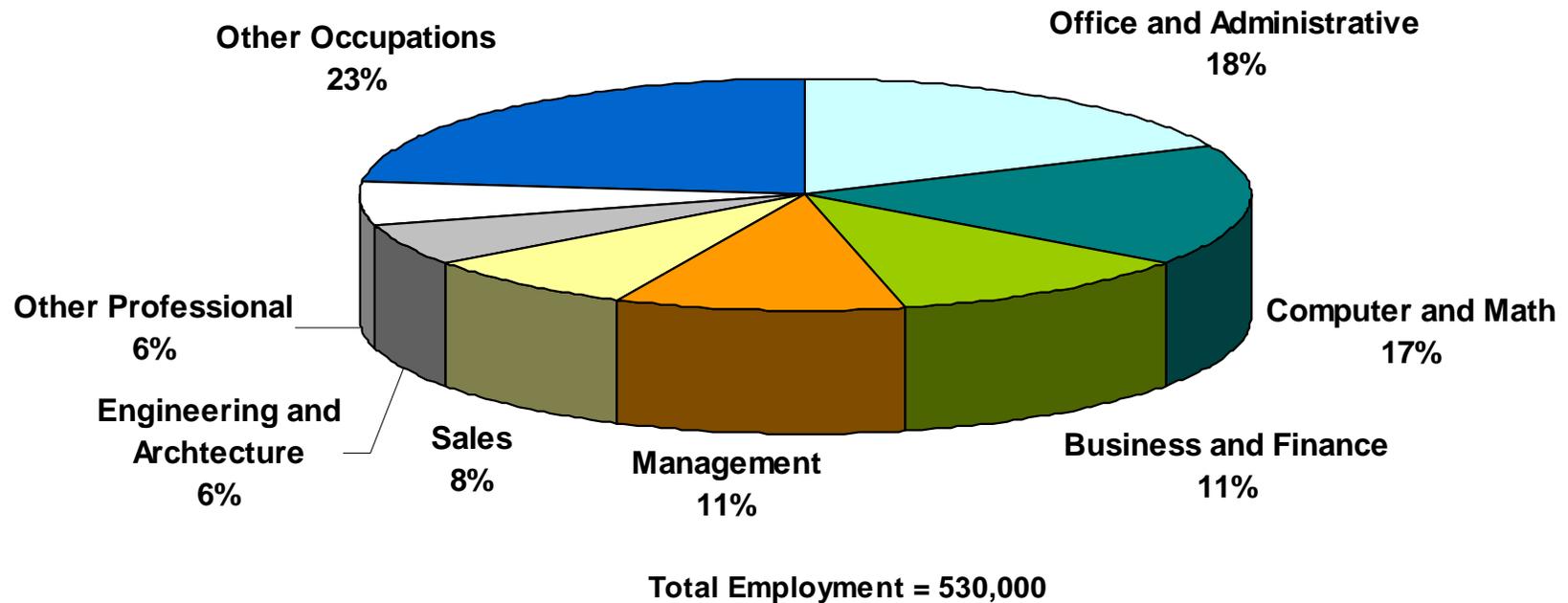


- **Over 55% of ICT workers have at least a Bachelor's degree.**
- **20% have a Master's degree or higher.**

Source: 2008 American Community Survey Public Use Microdata



Occupational Distribution



Source: LWD, OES Program, 2009



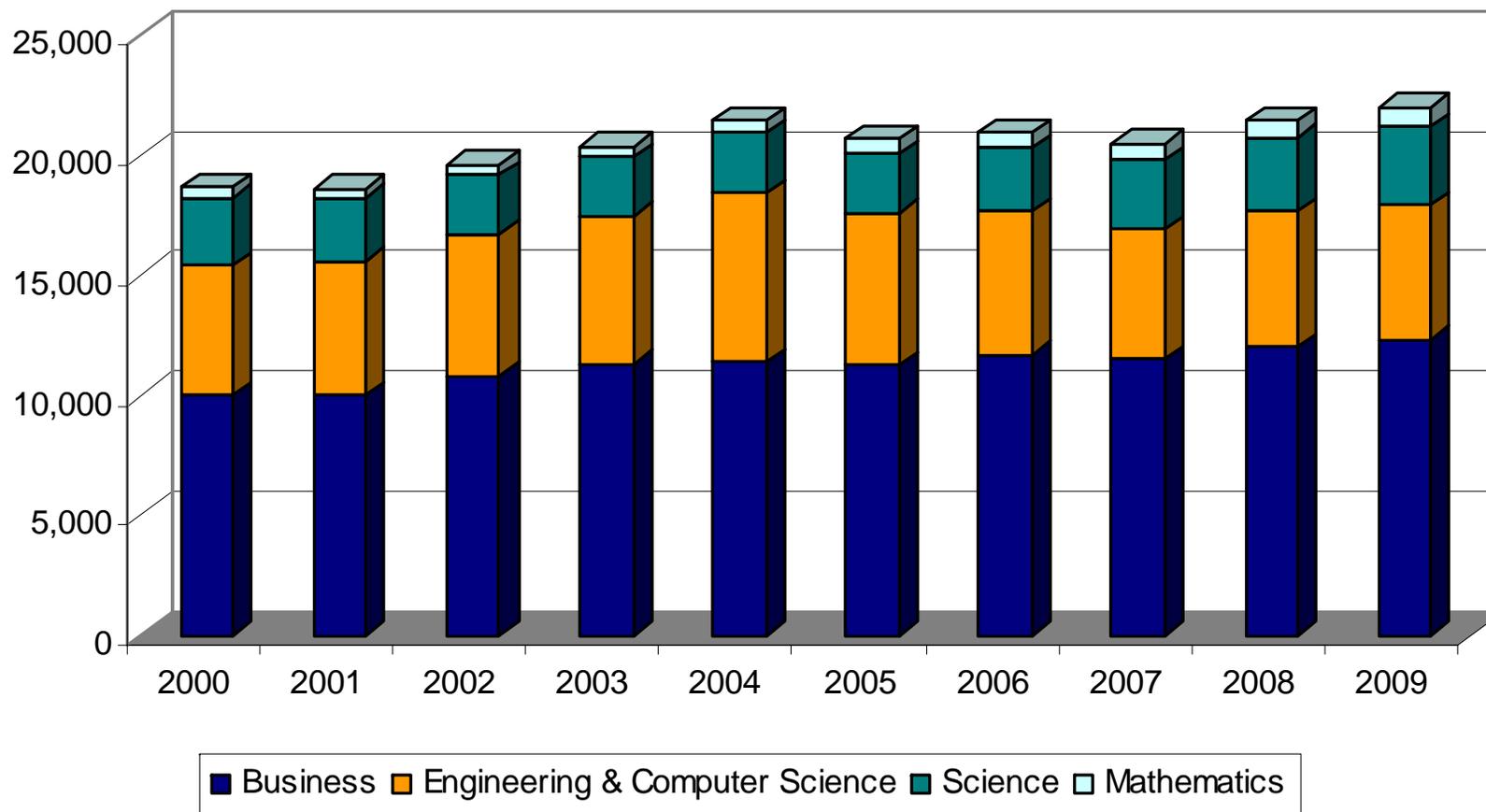
Staffing Pattern

Occupation	Employment	Percent of Total	Education / Training
Accountants and Auditors	20,400	3.8%	Bachelor's degree
Computer Systems Analysts	19,250	3.6%	Bachelor's degree
Computer Software Engineers, Applications	18,350	3.5%	Bachelor's degree
Computer Programmers	14,150	2.7%	Bachelor's degree
Customer Service Representatives	12,150	2.3%	Moderate-term on-the-job training
Office Clerks, General	11,900	2.2%	Short-term on-the-job training
Bookkeeping, Accounting, and Auditing Clerks	11,550	2.2%	Moderate-term on-the-job training
Sales Reps., Wholesale & Manufacturing, Exc. Technical & Scientific Products	11,550	2.2%	Work experience in a related occupation
General and Operations Managers	10,650	2.0%	Bachelor's or higher degree, plus work experience
Secretaries, Except Legal, Medical, and Executive	9,850	1.9%	Moderate-term on-the-job training
Computer Software Engineers, Systems Software	9,800	1.8%	Bachelor's degree
Computer and Information Systems Managers	8,500	1.6%	Bachelor's or higher degree, plus work experience
First-Line Supervisors/Managers of Office and Administrative Support Workers	7,950	1.5%	Work experience in a related occupation
Financial Managers	7,350	1.4%	Bachelor's or higher degree, plus work experience
Computer Support Specialists	7,050	1.3%	Associate degree
Executive Secretaries and Administrative Assistants	6,700	1.3%	Work experience in a related occupation
Management Analysts	6,650	1.3%	Bachelor's or higher degree, plus work experience
Laborers and Freight, Stock, and Material Movers, Hand	6,600	1.2%	Short-term on-the-job training
Sales Reps., Wholesale & Manufacturing, Technical & Scientific Products	6,500	1.2%	Work experience in a related occupation
Network Systems and Data Communications Analysts	6,300	1.2%	Bachelor's degree
Total selected occupations	213,300	40.2%	
All other	316,700	59.8%	

Source: LWD, OES Program, 2009



ICT Education in New Jersey: Total Business, Science and Engineering Degrees Awarded, 2000-2009



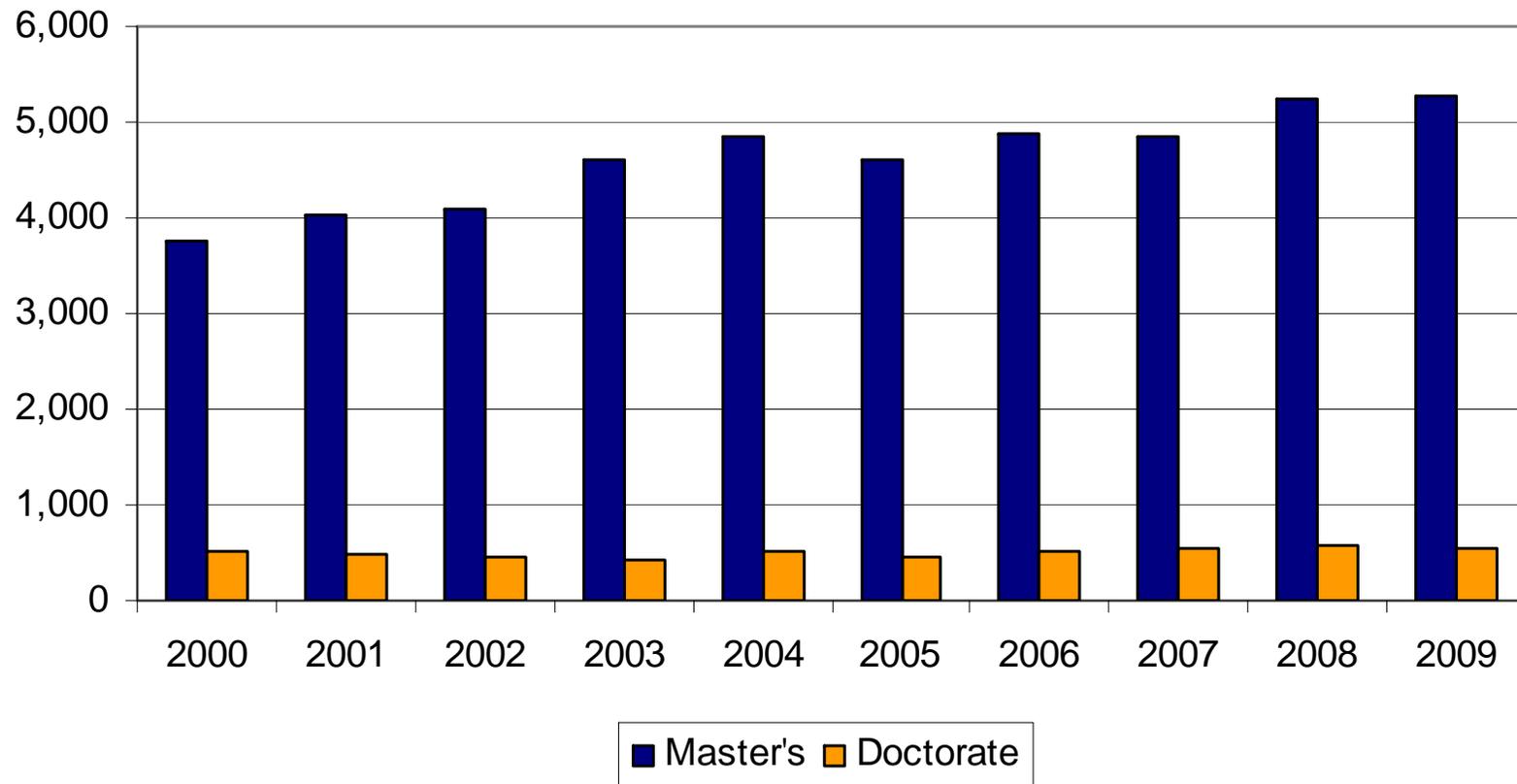
Note: Classification of Program codes changed in 2003; data may not be comparable for some programs

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



Graduate Degrees in New Jersey

Business, Science, Math, Engineering and Computer Science

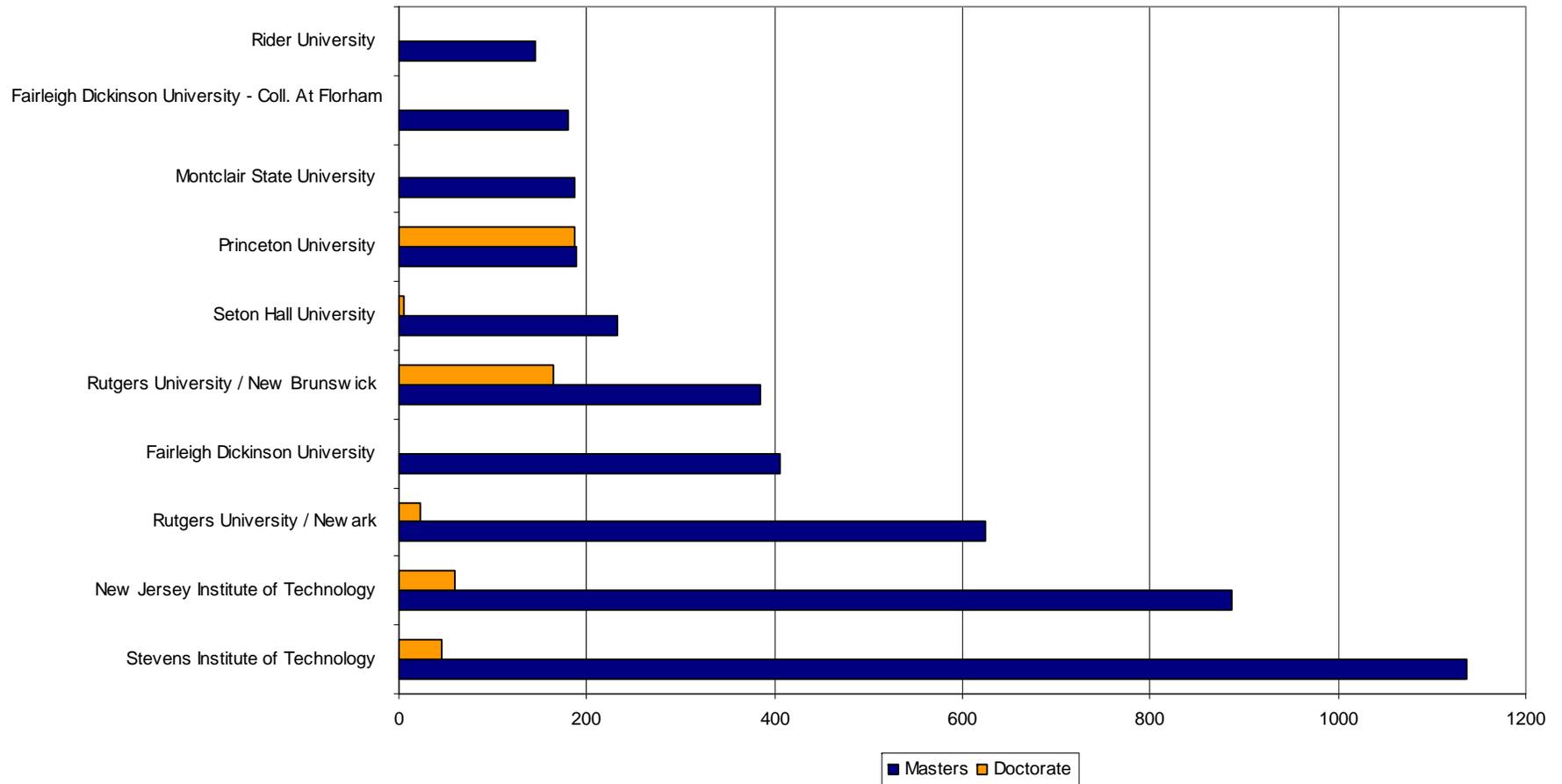


Note: Classification of Program codes changed in 2003; data may not be comparable for some programs

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



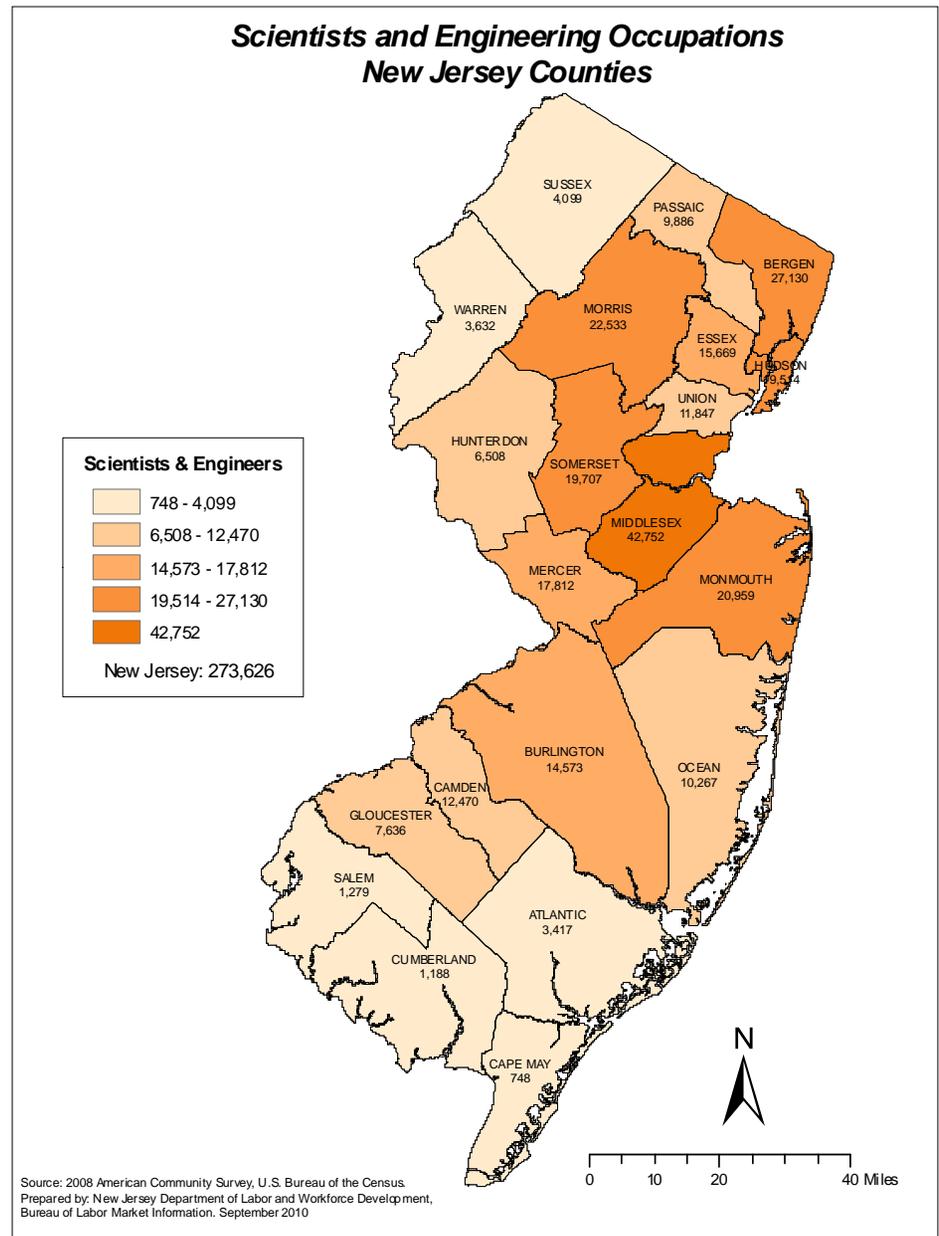
Graduate Degrees in Science/Business by Institution, 2009



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

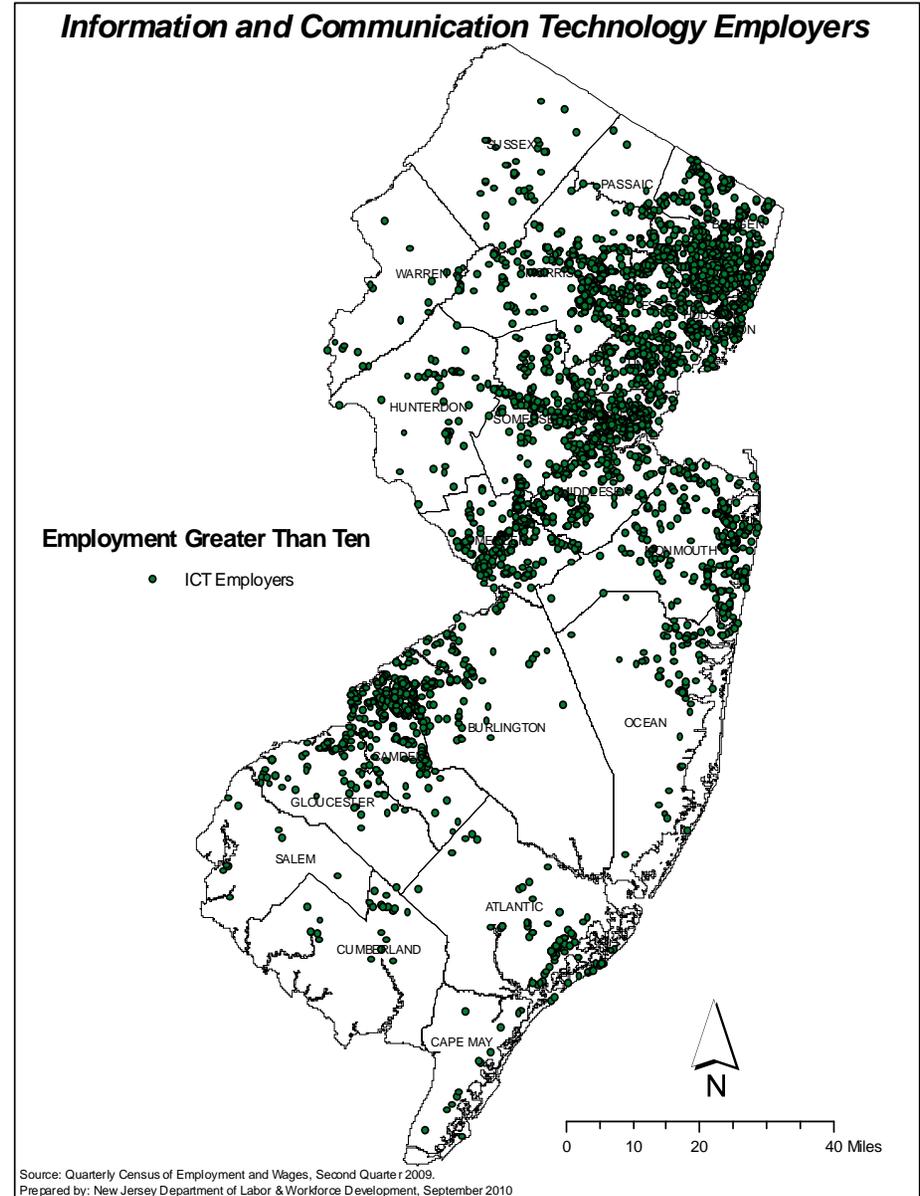


Distribution of Scientists and Engineers





ICT Sites in New Jersey





Labor Shed: Professional, Scientific & Technical Services and Information

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

*Professional, Technical and Scientific Services
& Information Labor Shed*

