

Challenges for LMI Innovation in Maine



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State -Level Labor Market Information Systems Under Stress

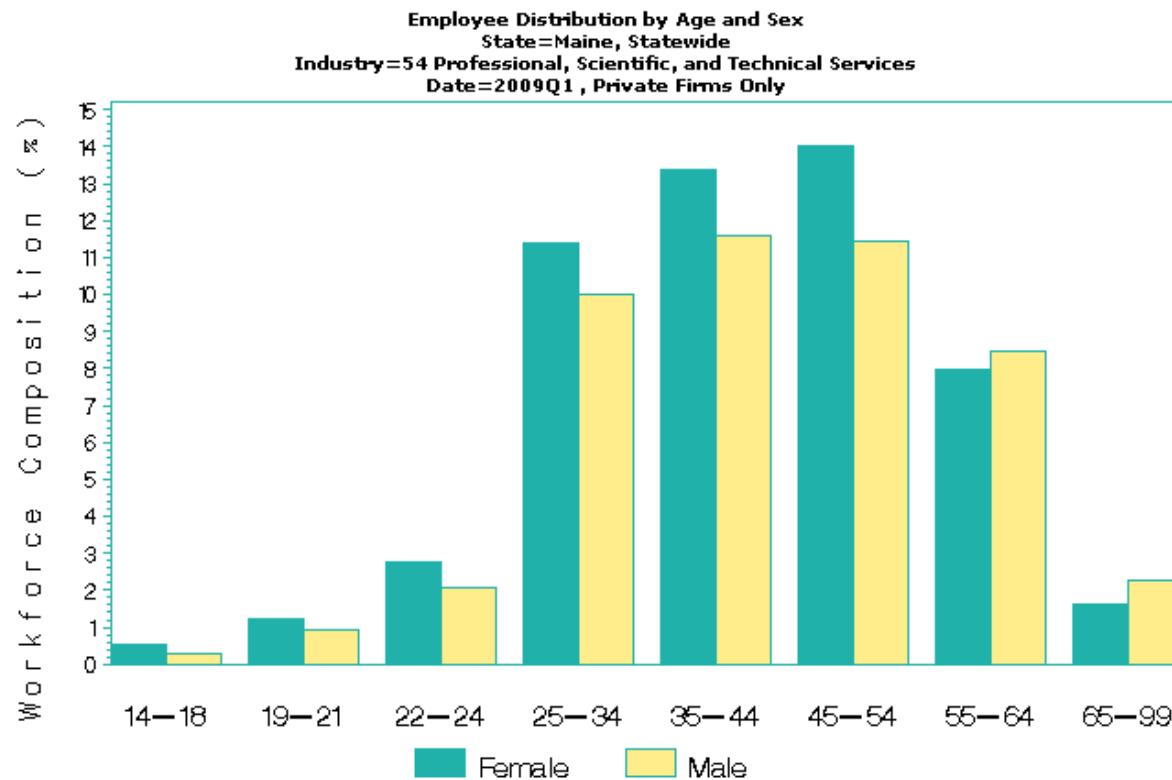
- Disruptive and Discontinuous Change In State and Regional Economies and Labor Markets
- Limited Portfolio of Tools, Data Systems and Staff Capabilities
- Organizational Cultures and Systems Not Built for Innovation
- Long Term Funding Declines and Limited Funding Sources

Long Term Challenges-New Tools and Systems

- **Workforce Demographics/Skills Replacement**
 - Local Employment Dynamics
 - Projections Development/Improvement
- **Sector and Cluster Strategies for Economic Development**
 - Quarterly Census of Employment and Wages-Longitudinal
- **Aligning Education and the Economy**
 - IPEDS
 - Internet Job Postings
 - Skills/Qualifications Parsing
 - SLDS

Maine's Most Educated and Skilled Workers are Heading towards the Exits

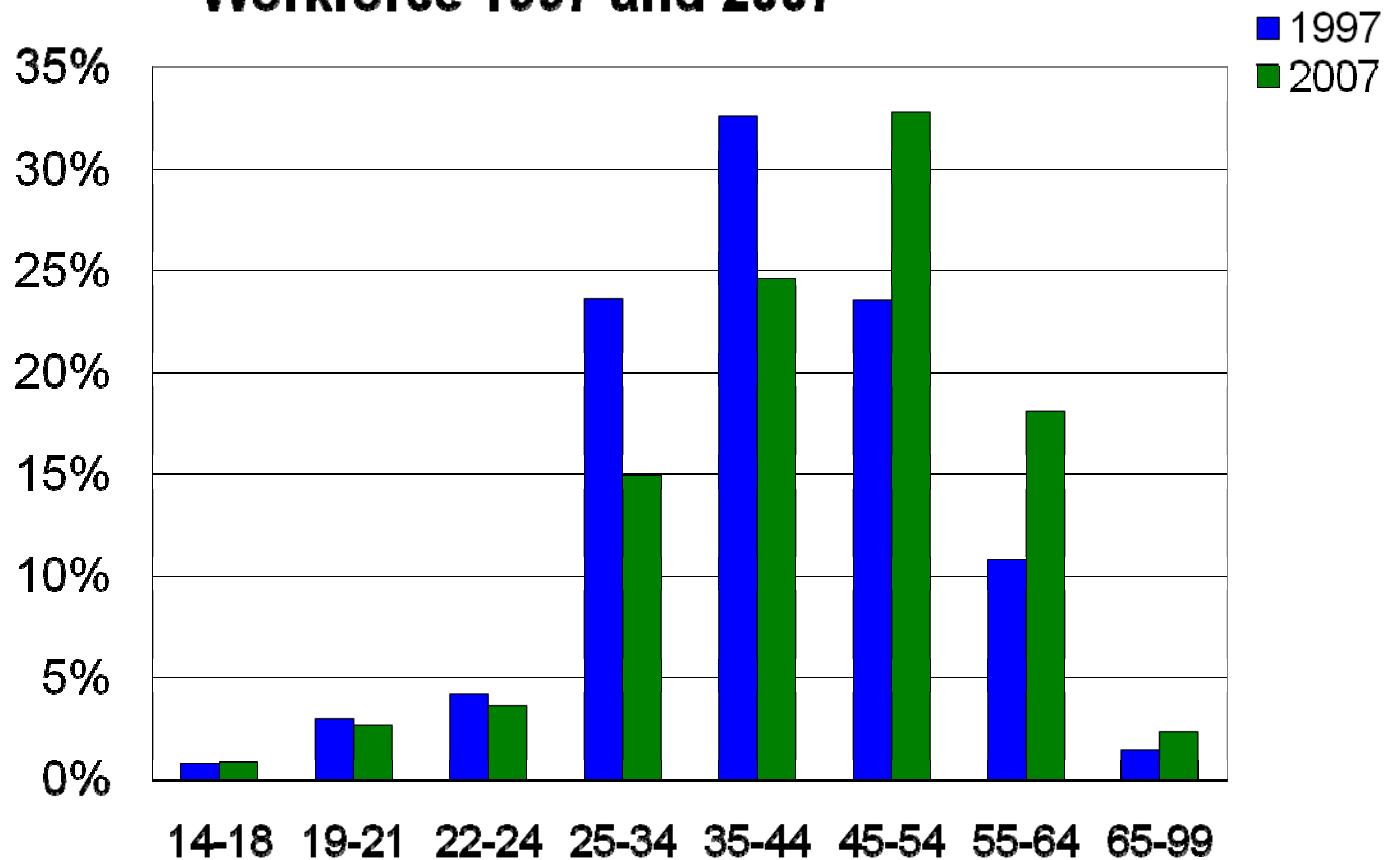
Industry Focus: Workforce Characteristics Results



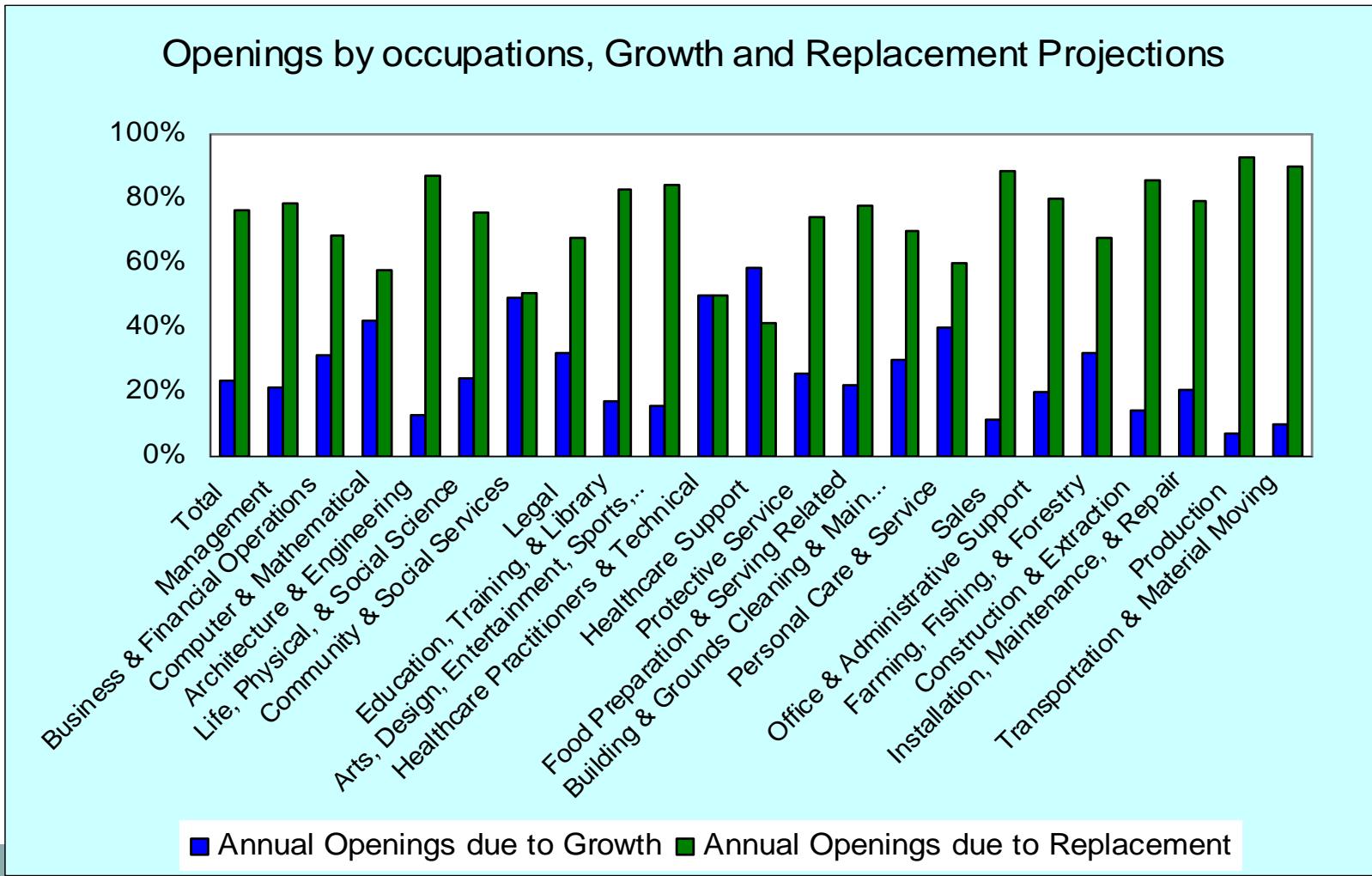
What do you want to find out about the workforce?

Key Industries Are Disproportionately Impacted

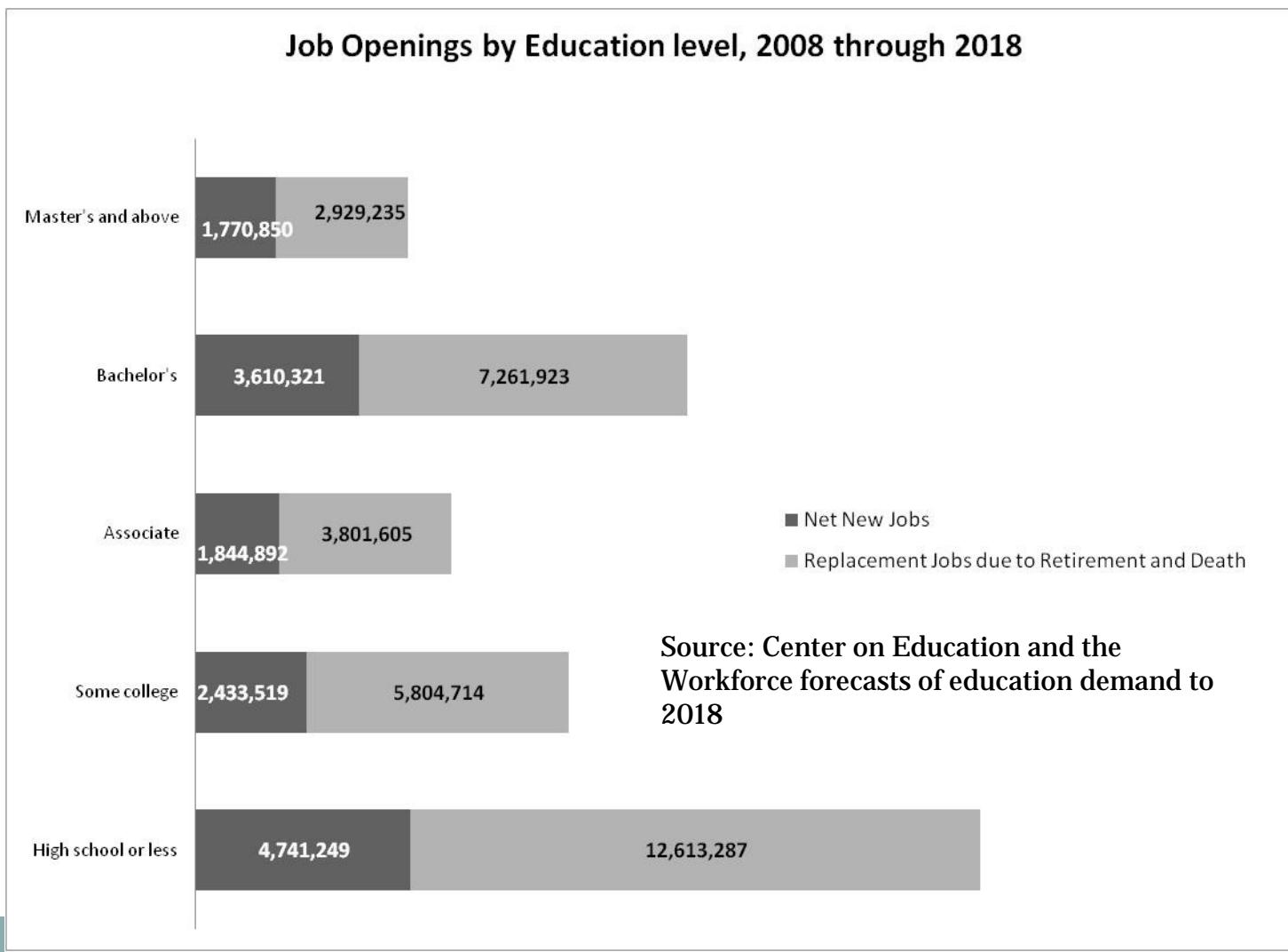
Demographics of Maine's Manufacturing Workforce 1997 and 2007



Openings in Maine Occupations will be fueled by replacement demand rather than by growth in all occupations except one



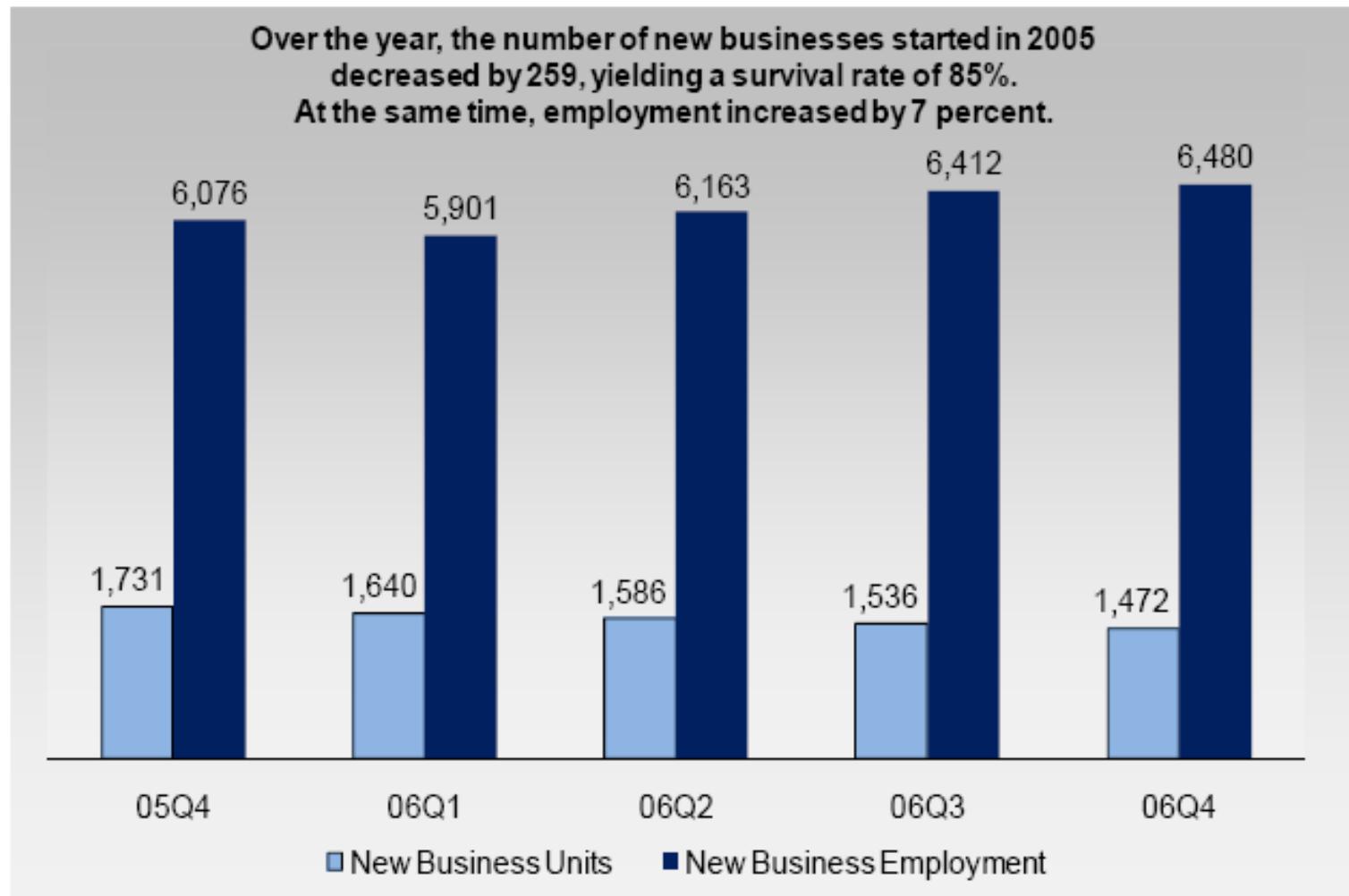
Responding to New Projections Methodologies



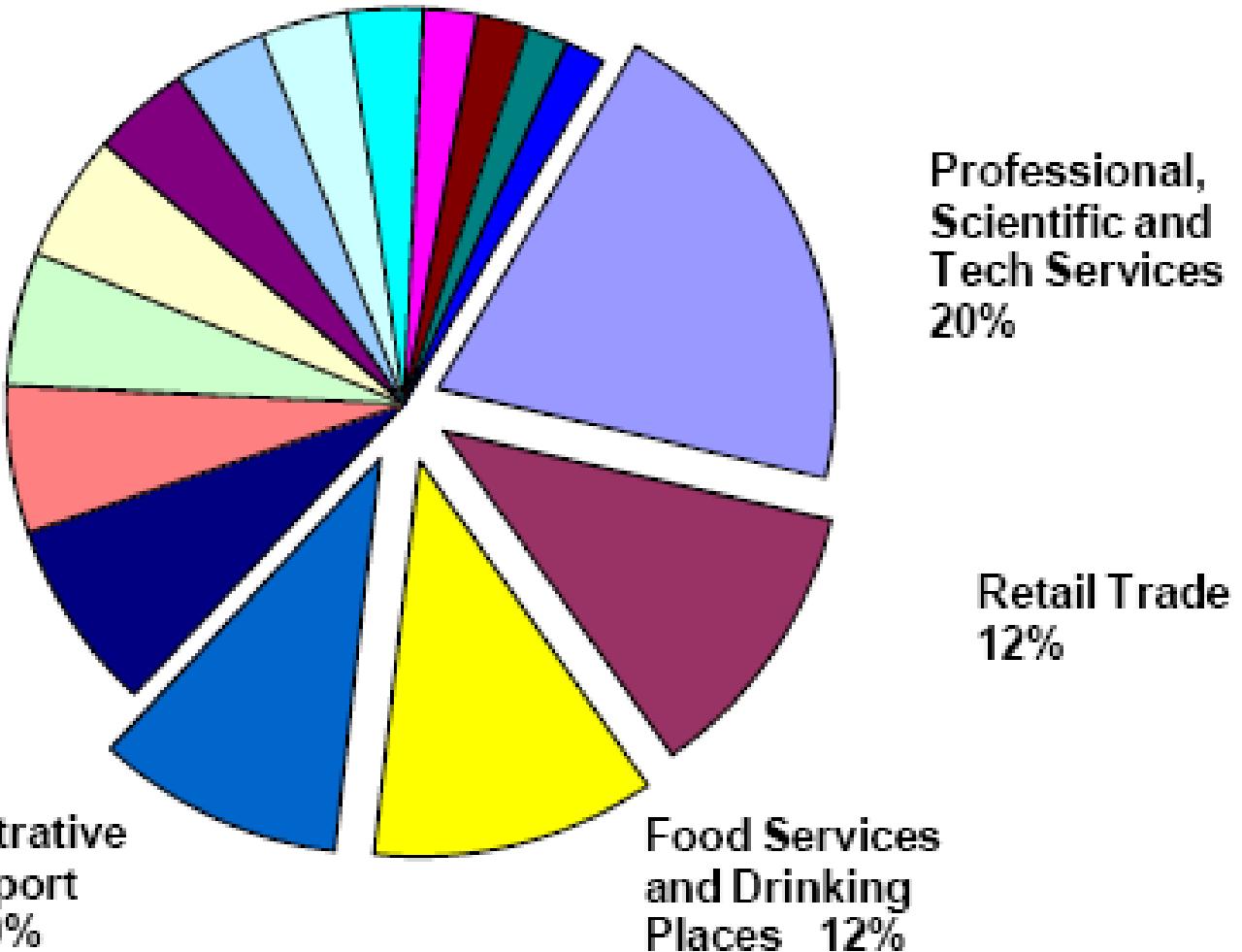
Growing Demand to Support Sector and Cluster Studies



Using the QCEW for Longitudinal Tracking of Newly Forming Businesses



New Business Units by industry



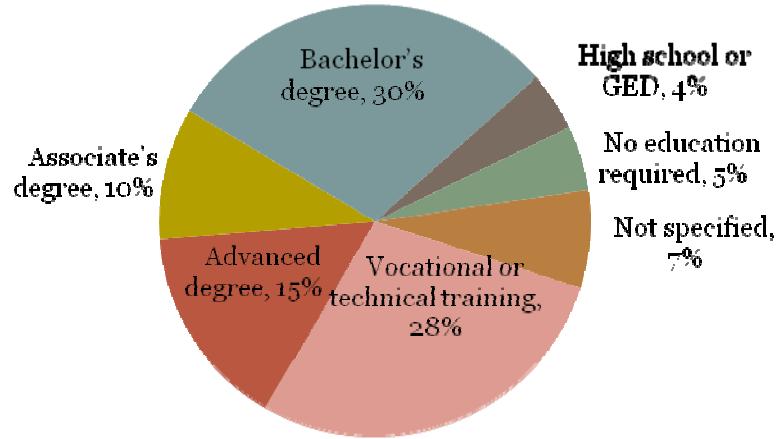
Aligning UMS Educational Output and Labor Market Demands

Degree	Employment		Completers / Grads Entering Labor Force			
	2008	2016	2006	2007	2008	2009
Business and Management	39,240	44,209	514 / 449	527 / 450	531 / 442	475 / 397
Education	20,970	20,751	686 / 198	786 / 350	689 / 261	644 / 228
Engineering	18,260	19,244	290 / 254	244 / 208	269 / 211	291 / 259
Health Professions	16,610	19,463	448 / 383	508 / 431	538 / 478	542 / 456
Social Sciences	5,740	5,474	456 / 443	445 / 428	483 / 474	460 / 442
Total	100,820	109,141	2394 / 1727	2510 / 1867	2510 / 1866	2412 / 1782

Degree	2008	UMS Labor Market Entrants / Employment	Annual Internet Job Postings Volume				Average Wage 2008
			2006	2007	2008	2009	
Business and Management	1.13%		16,024	18,551	16,962	13,180	\$53,388
Education	1.24%		1,062	1,852	1,706	1,246	\$41,668
Engineering	1.16%		9,051	11,100	11,346	8,311	\$58,988
Health Professions	2.88%		17,429	30,336	26,980	19,524	\$59,779
Social Sciences	8.26%		2,159	2,494	2,961	1,965	\$41,762
Total	1.85%		45,725	64,333	59,955	44,226	-

Education and Economy Alignment – Research/Analysis/Support

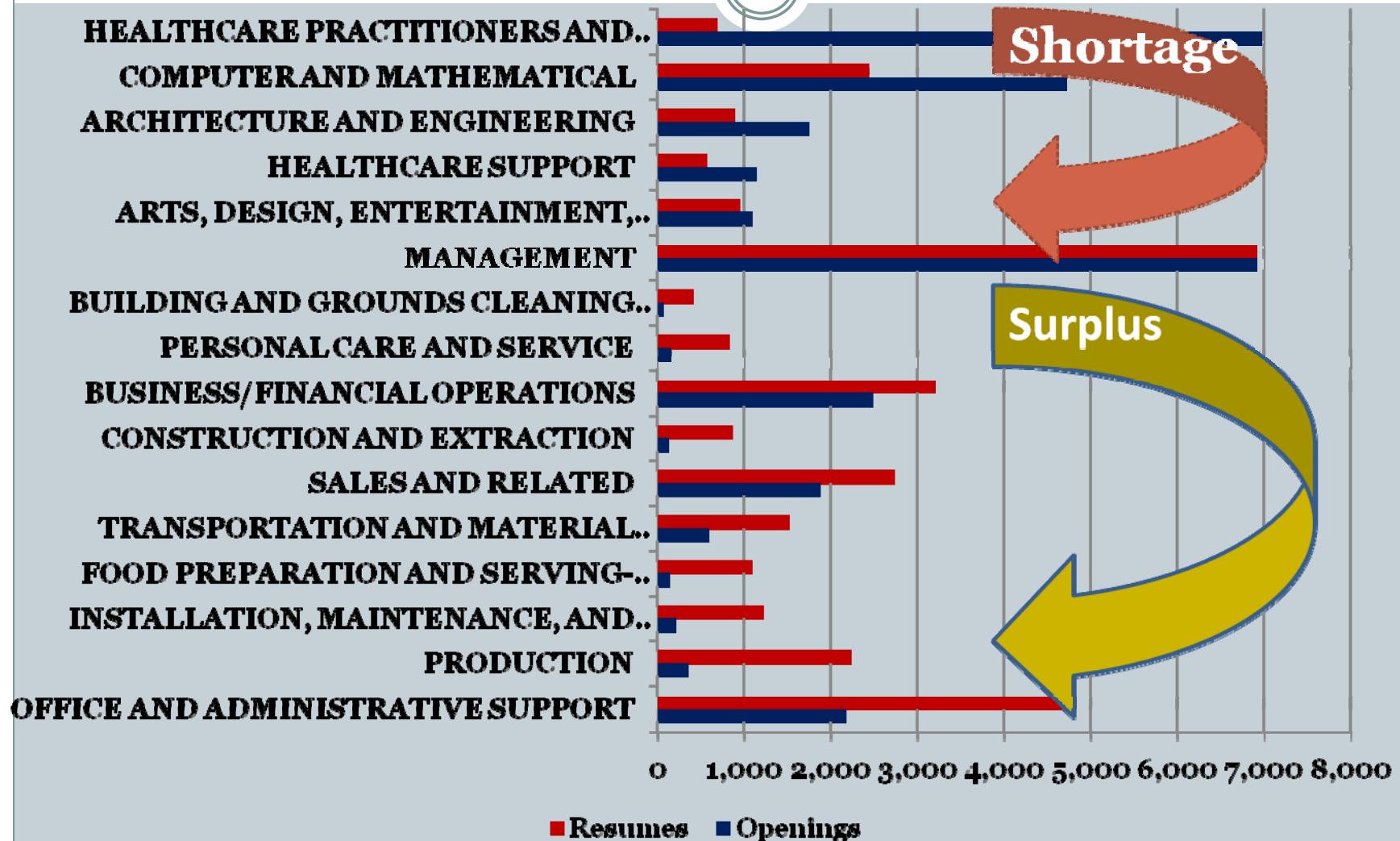
Educational Requirements for Maine Job Vacancies for Healthcare Practitioners



Using Internet Job Postings To Track Supply & Demand by Occupation Group



Data from Burning Glass Technologies:

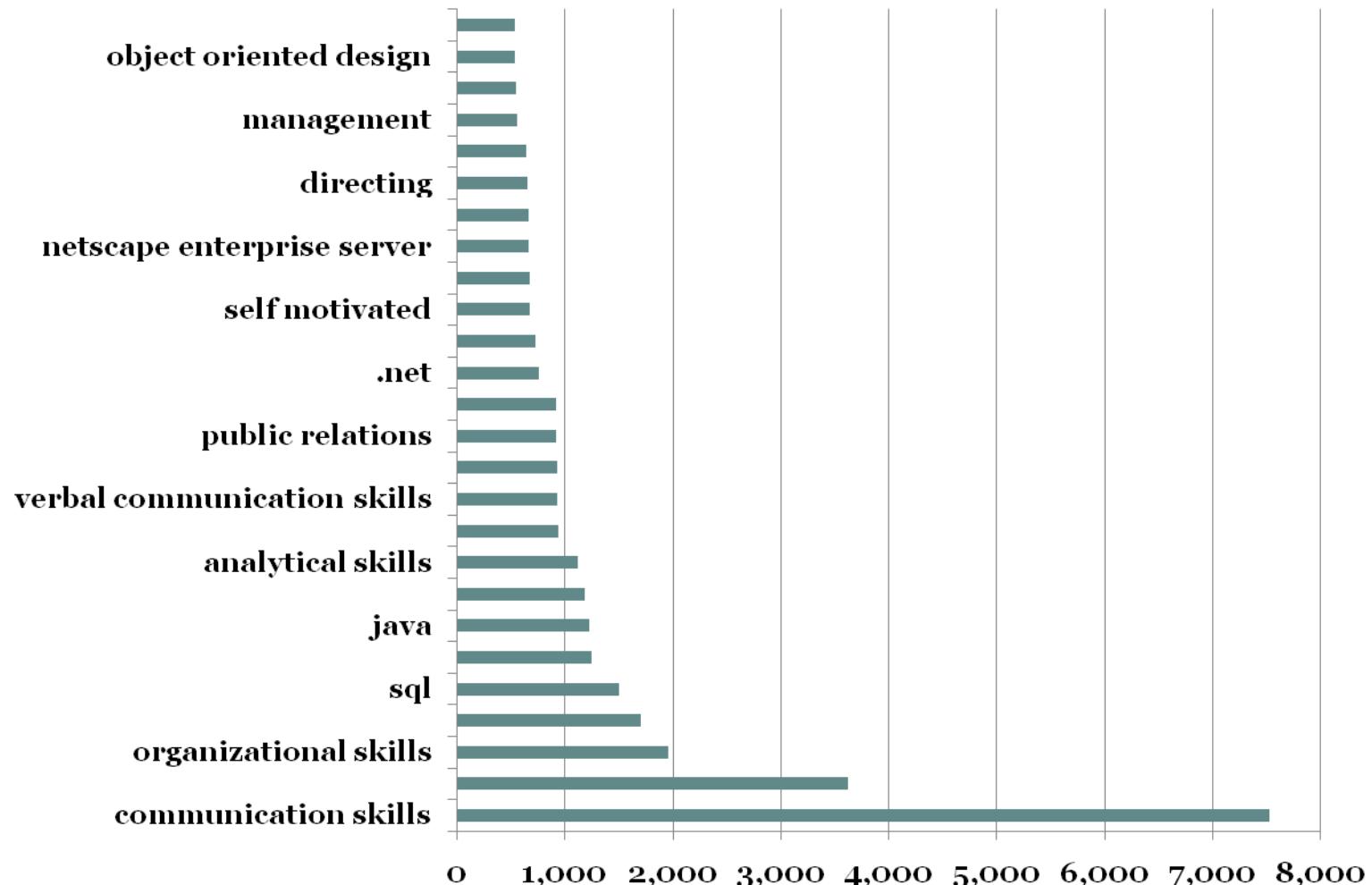


Parsing Internet Job Postings with AI Software

Data from Burning Glass Technologies:



Greatest Skill Shortages



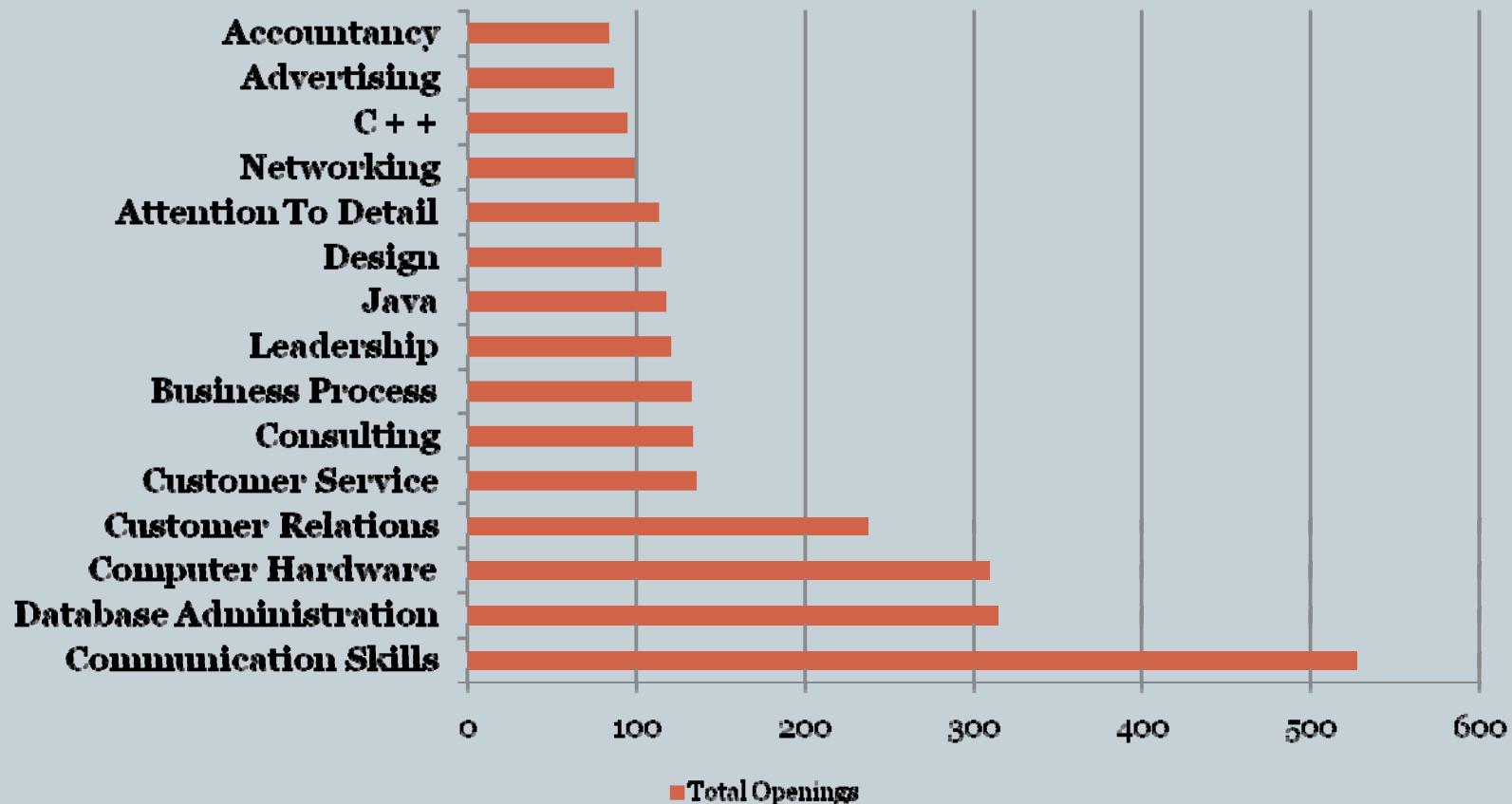
Drilling Down to Job Skills -Data from Burning Glass Technologies:



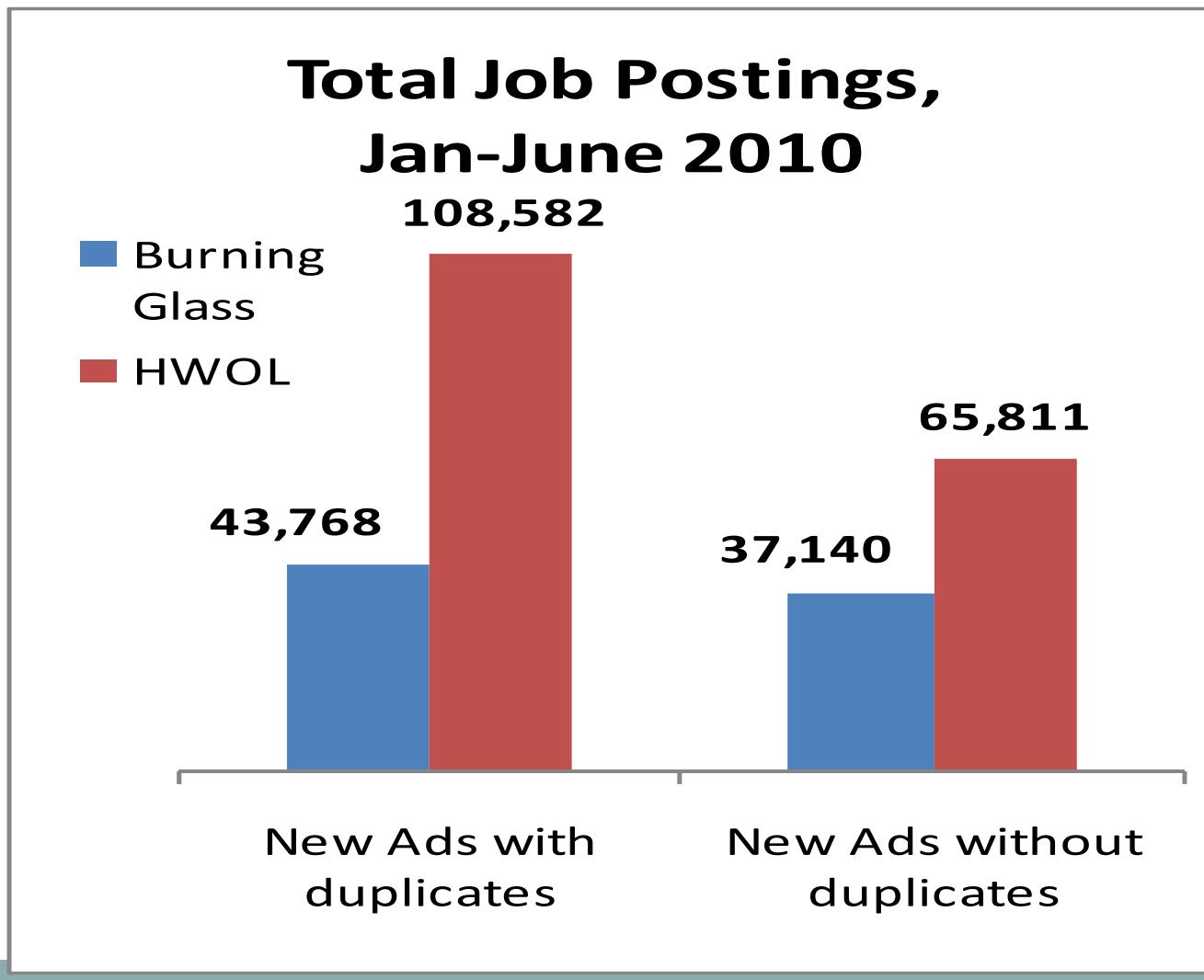
Hear Employers Speak: Skills-Level Data on What They

Are Asking For

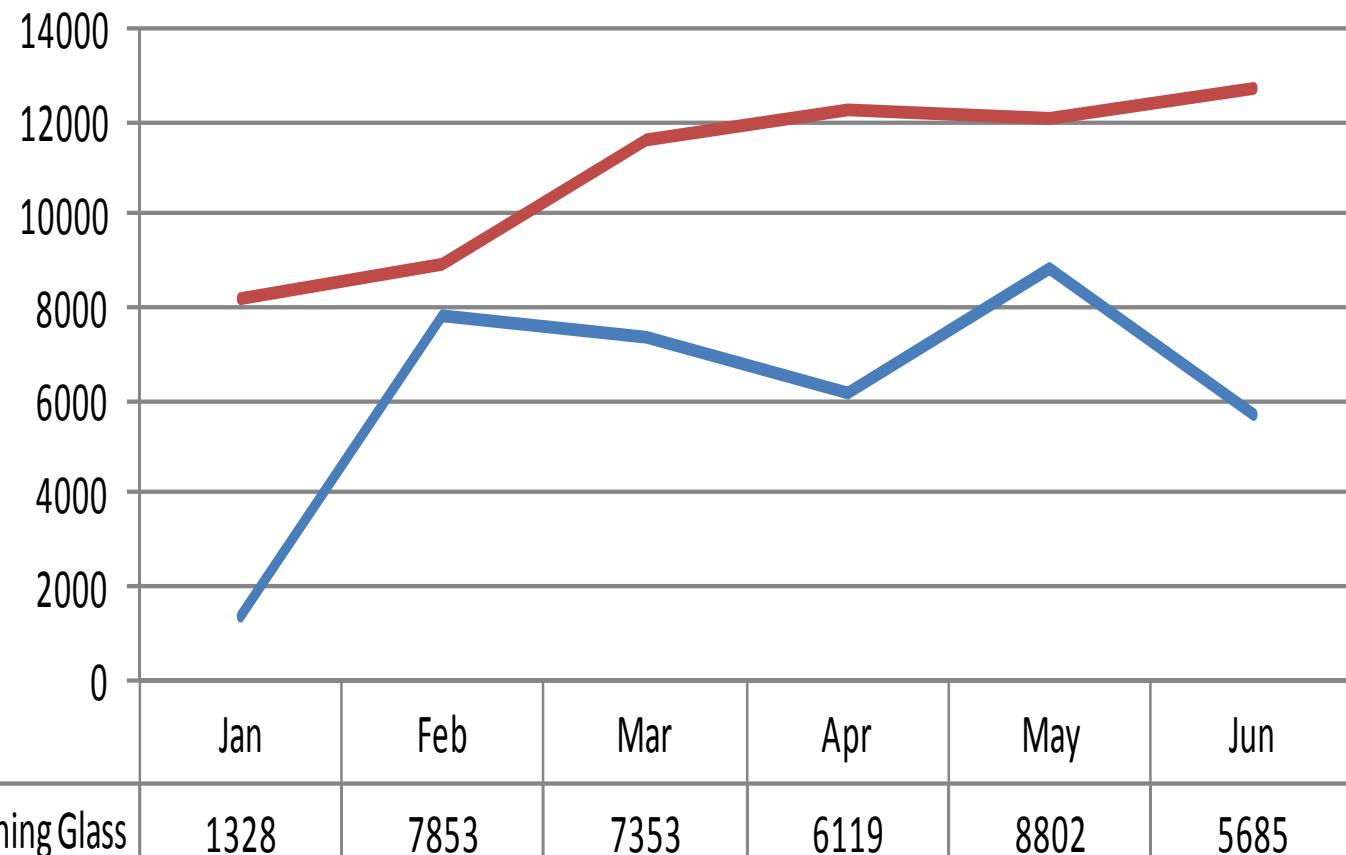
Skill Requirements for IT jobs



A Quick Note on Internet Job Postings



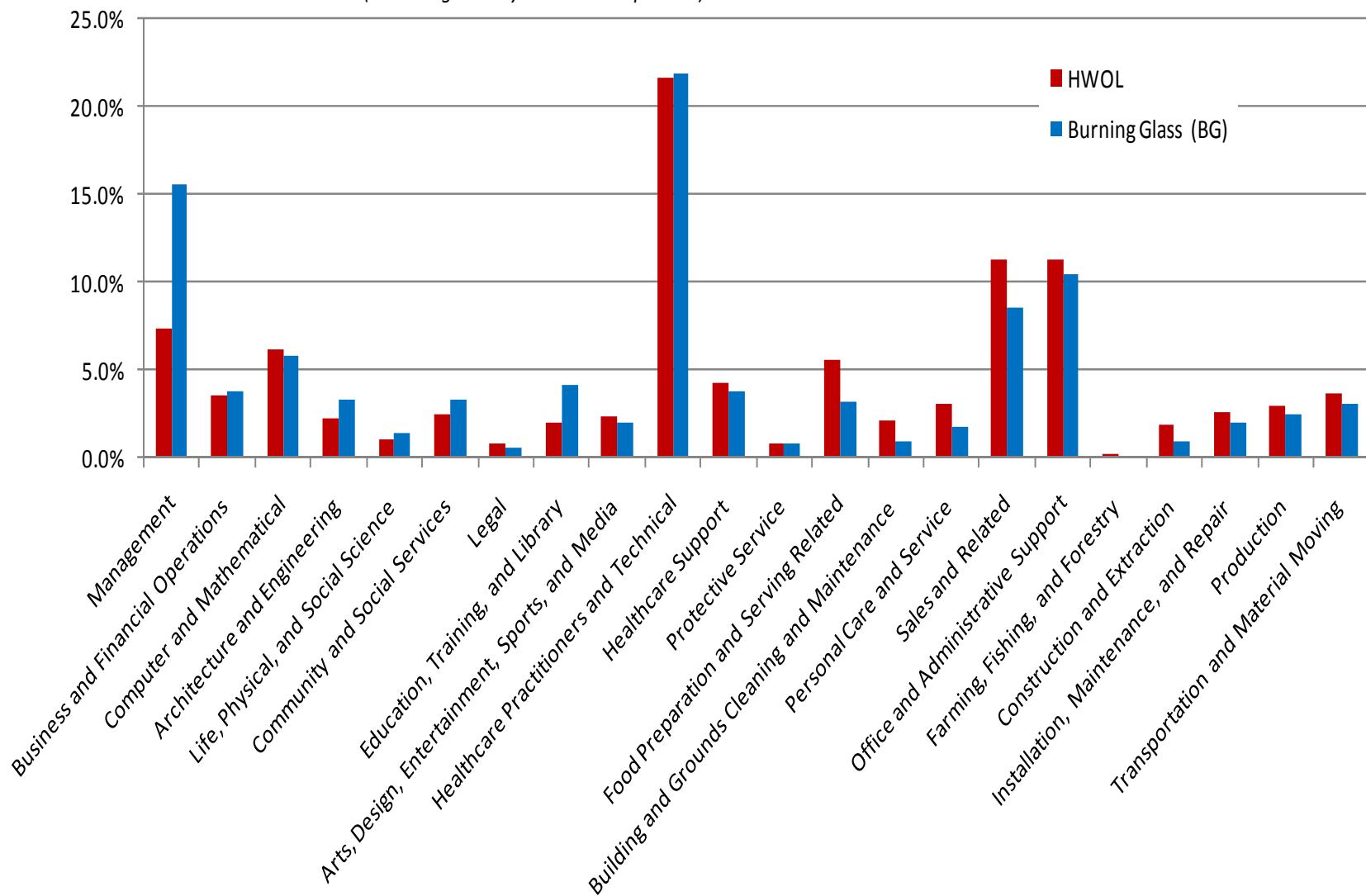
Jan-June 2010 Job Postings, New ads without duplicates by month, by source



Distribution of Occupations, percent of total coded job postings

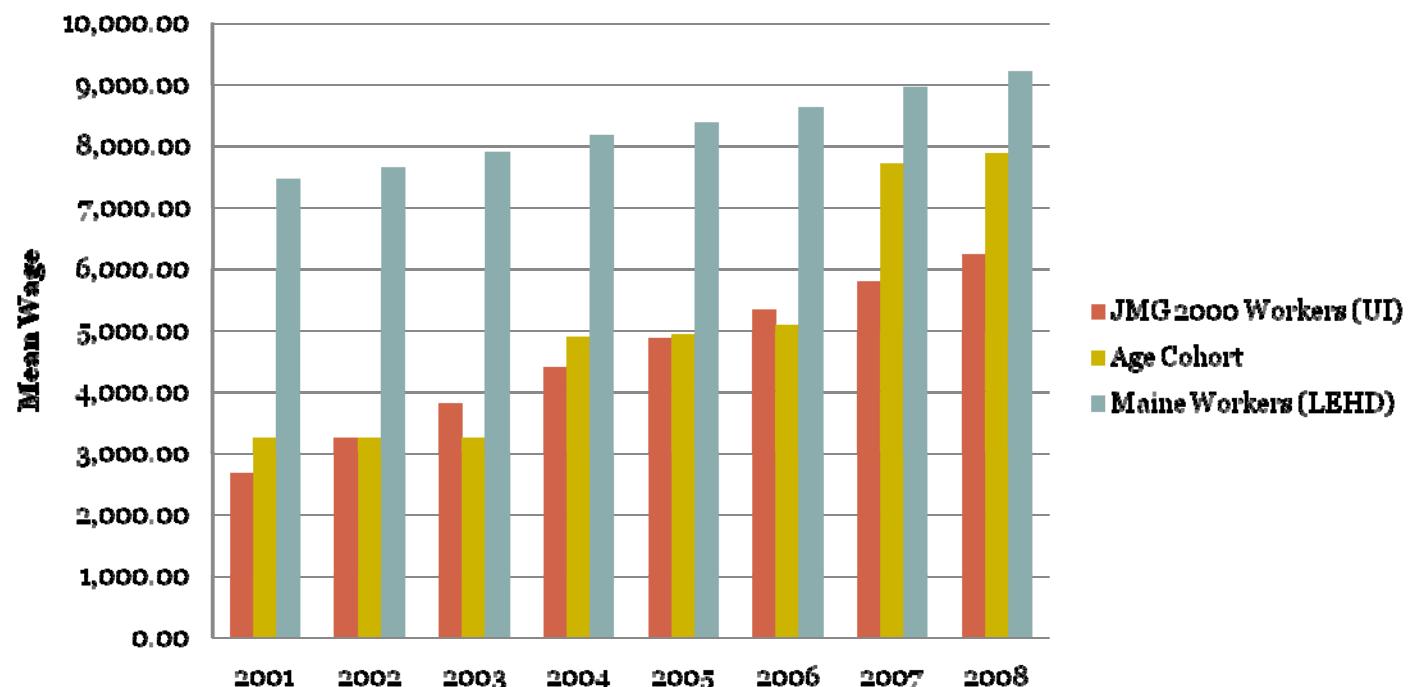
January 2010 - June 2010

(excluding military related occupations)



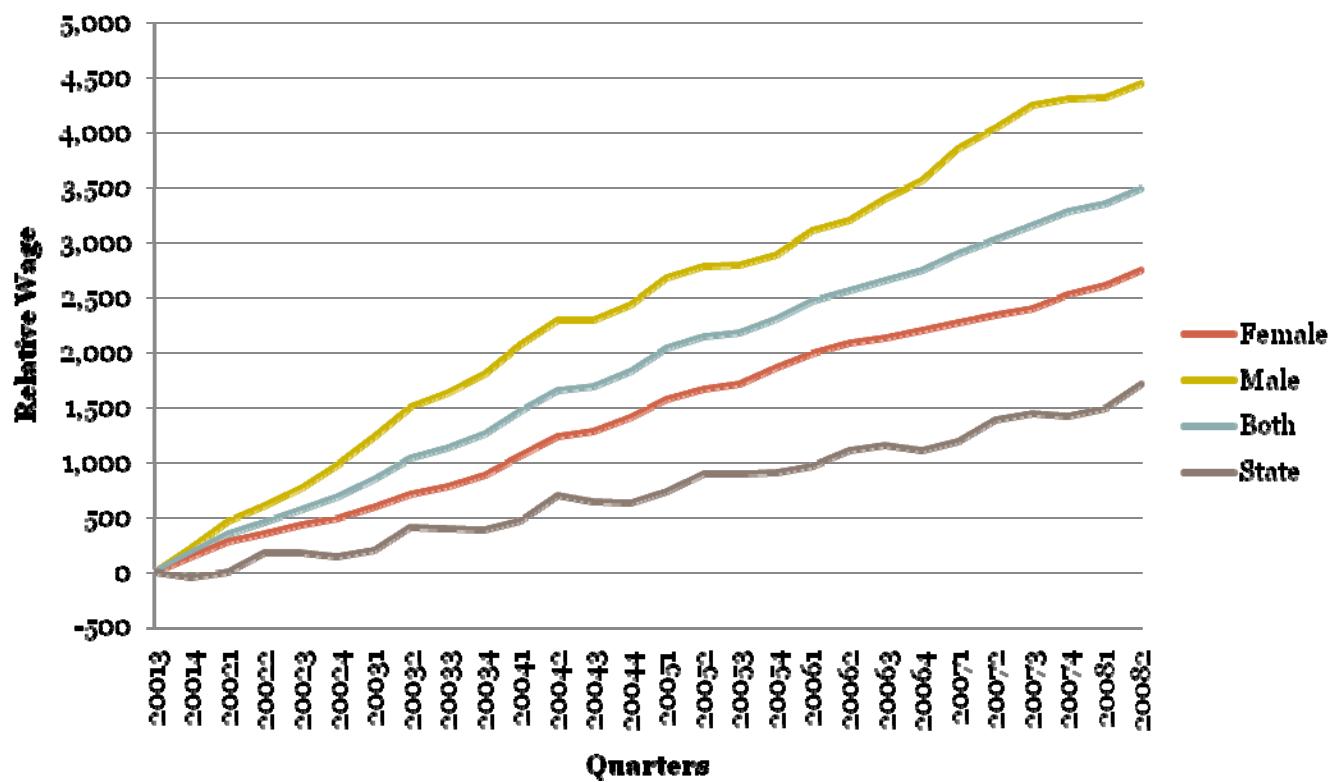
Add Labor Market Context to State Longitudinal Data Systems

JMG Graduating Class of 2000: Wage Comparison Average QUARTERLY WAGE



Contextualization of Longitudinal Data

JMG Graduating Class of 2000: Rate of Change Wages



Summary



- Being Responsive Means Broadening Scope of LMI Shop
- Expanded Scope Requires Added Resources and New Talent
- LMI Shops Need Strategic Partners/New Business Model
 - University-Based Researchers
 - Private Consultants
 - Project Based