B | Metropolitan Policy Program

Baseline: Building a 21st Century Workforce for the Houston Region

Marek Gootman Global Cities Initiative - Houston May 14, 2013

Manufacturing, energy, healthcare, transportation are critical components of the Houston economy

Share of Total Employment by Industry Sector, 2012 n=2,734,392



Most Specialized Sub-Sectors by Employment, 2012



18

Source: Brookings analysis of Moody's Analytics data.

Manufacturing, energy, and healthcare account for 675,000+ jobs, one quarter of Houston's employment base – two in tradable sectors

Manufacturing

190,507 7.0%



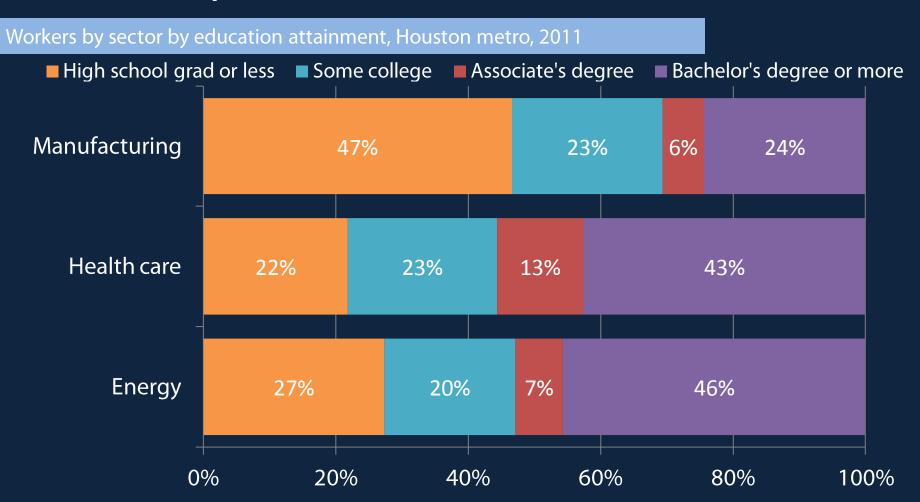
Health Care

243,559 8.9% Houston is a major exporter – tradable sectors of petrochemicals and machinery manufacturing drive performance



Source: Brookings, ExportNation 2012

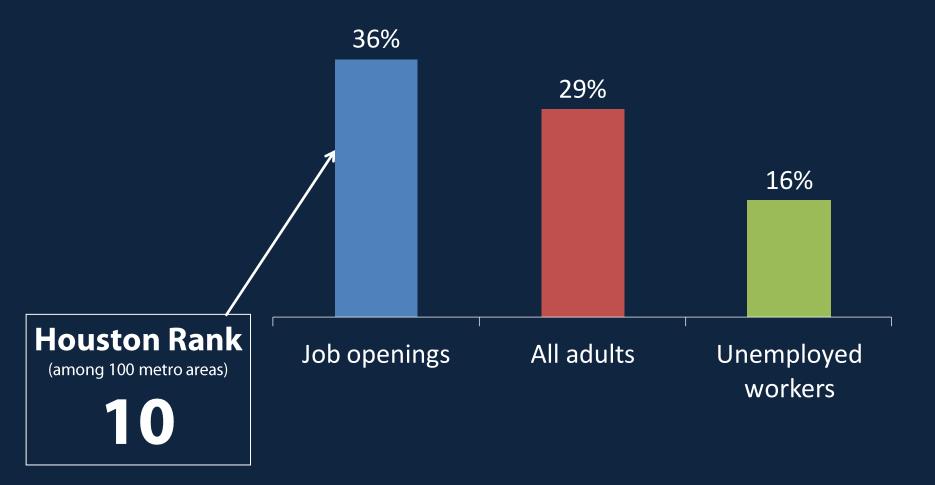
Energy and Health Care workers have high levels of education. Manufacturing skill demands hidden by long-time incumbent workers, and will need more educated replacements.



Source: 2011ACS 1-year estimates microdata, accessed via IPUMS.org

The Houston region's job openings demand high levels of educational attainment

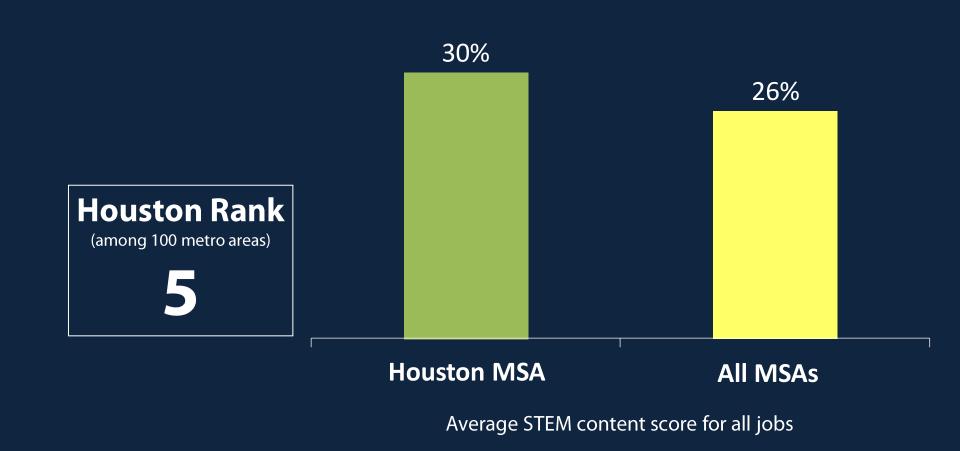
Share of job openings requiring, and adults possessing, bachelor's degree, Houston metro, 2011



Source: Brookings analysis of Help Wanted Online and U.S. Census Bureau data

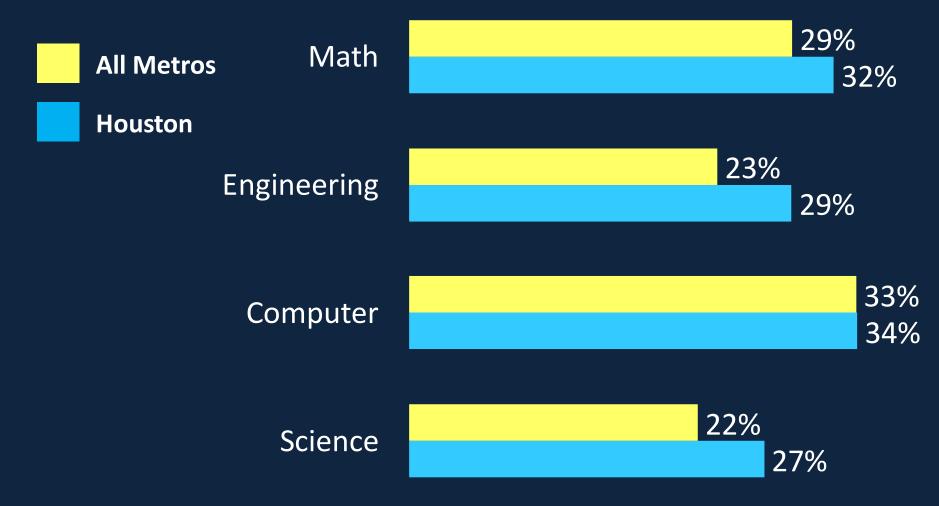
About one third of Houston's jobs are in STEM-focused fields

Share of jobs with above-average STEM content, Houston metro, 2011



Houston's jobs are above-average in every aspect of STEM content

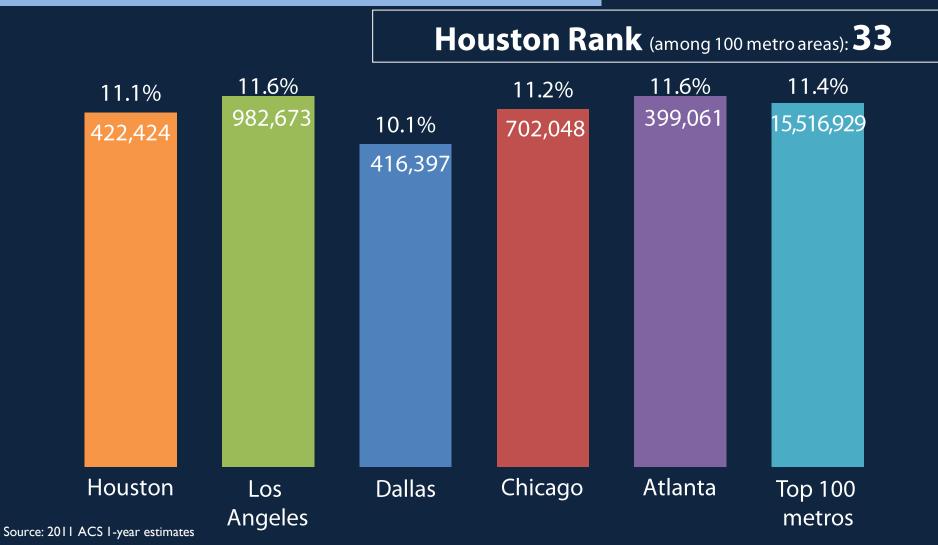
Share of jobs with high science, computer, engineering, or math content, Houston metro, 2011



Source: Brookings analysis of Bureau of Labor Statistics data

Houston MSA ranks 5th in population, but 33rd in share of STEM degrees among the top 100 metros

Share of population 25+ with a degree in a STEM field, 2011



Educational attainment in Houston mirrors national trends but is a bit lower than peer metros

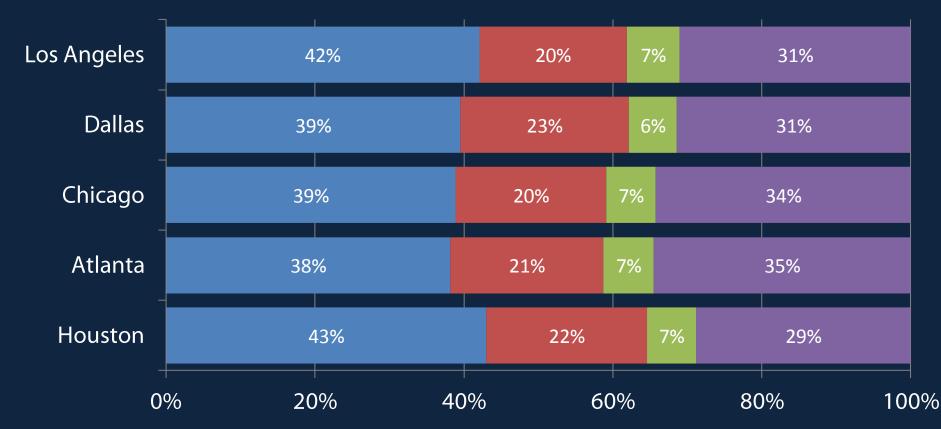
Educational attainment for the population 25 and over, 2011

High School diploma or less

Some college

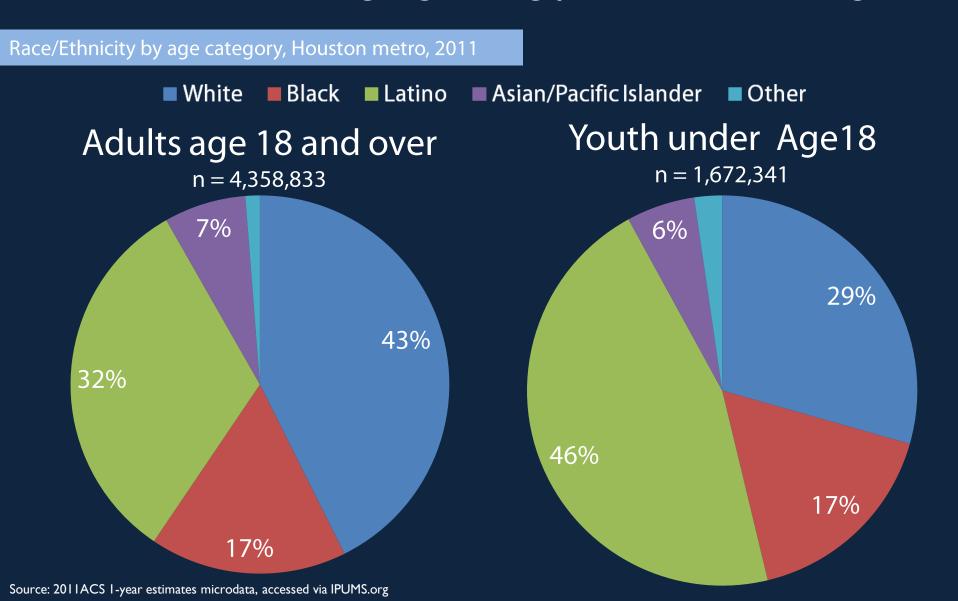
Associate's degree

Bachelor's degree or more



Source: 2011 ACS 1-year estimates

Latinos make up almost 50 percent of youth, compared to I/3 of adults, indicating a growing presence in the region



Latinos have the lowest educational levels

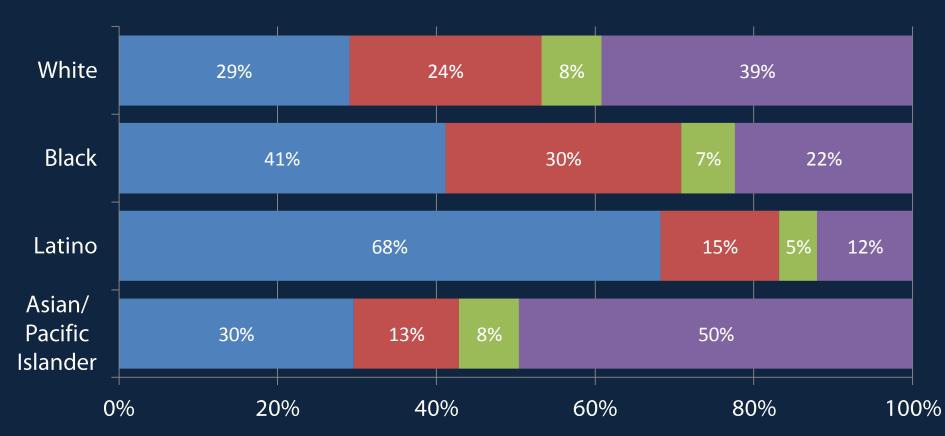
Educational attainment for the population 25 and over by race/ethnicity, Houston metro, 2011

High School diploma or less

Some college

e Associate's degree

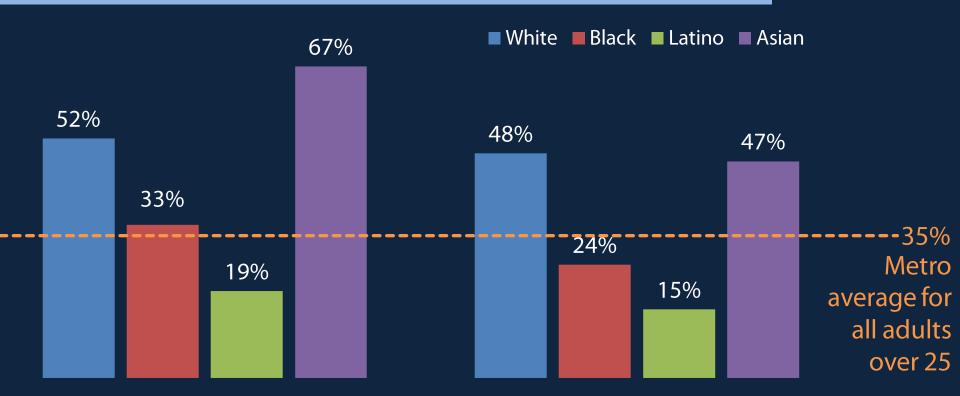
Bachelor's degree or more



Source: 2011ACS 1-year estimates microdata, accessed via IPUMS.org

Younger residents of all races/ethnicities have higher educational levels than older residents, but significant racial/ethnic disparities remain





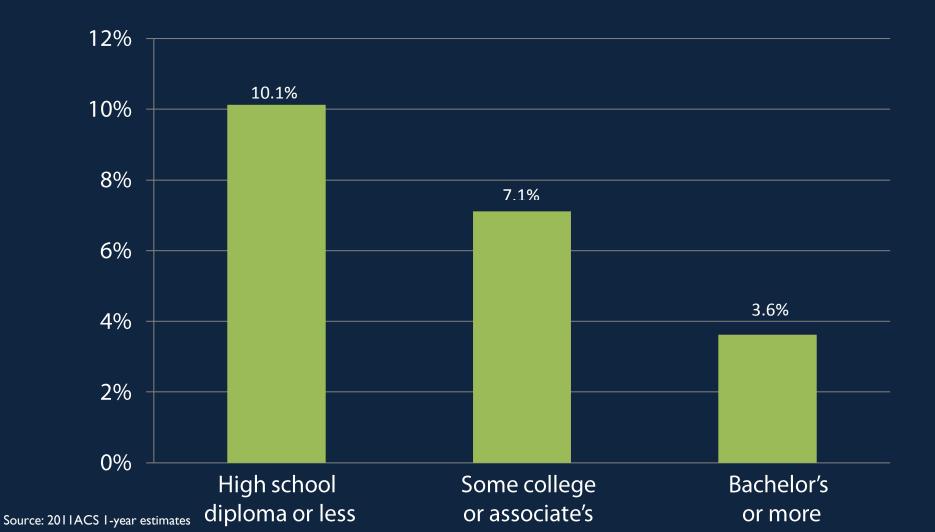
Ages 25-34

Ages 55-64

Source: 2011ACS 1-year estimates microdata, accessed via IPUMS.org

Higher educated residents are much less likely to be unemployed

Share of civilian population 25-64 unemployed by education attainment, Houston metro, 2011



Workforce Development Action: Considerations to Achieve Near-Term Impacts

Tailored – building on distinct regional industry profiles, demographics, labor markets.

Targeted – focusing to address needs by sectors, responsive to special populations, not all-encompassing.

Business-Led – consistently and methodically engaging the private sector for direction, feedback, and co-delivery.

Integrated / Collaborative – partner across multiple delivery systems, but with common objectives and measures.

visit metro:

www.brookings.edu/metro

Marek Gootman Director of Strategic Partnerships

(202) 797-6294 mgootman@brookings.edu @MarekGootman

B | Metropolitan Policy Program at BROOKINGS