

*“A Skilled and Educated Workforce”*  
**Joint Report on Employer Demand for  
Postsecondary Education**

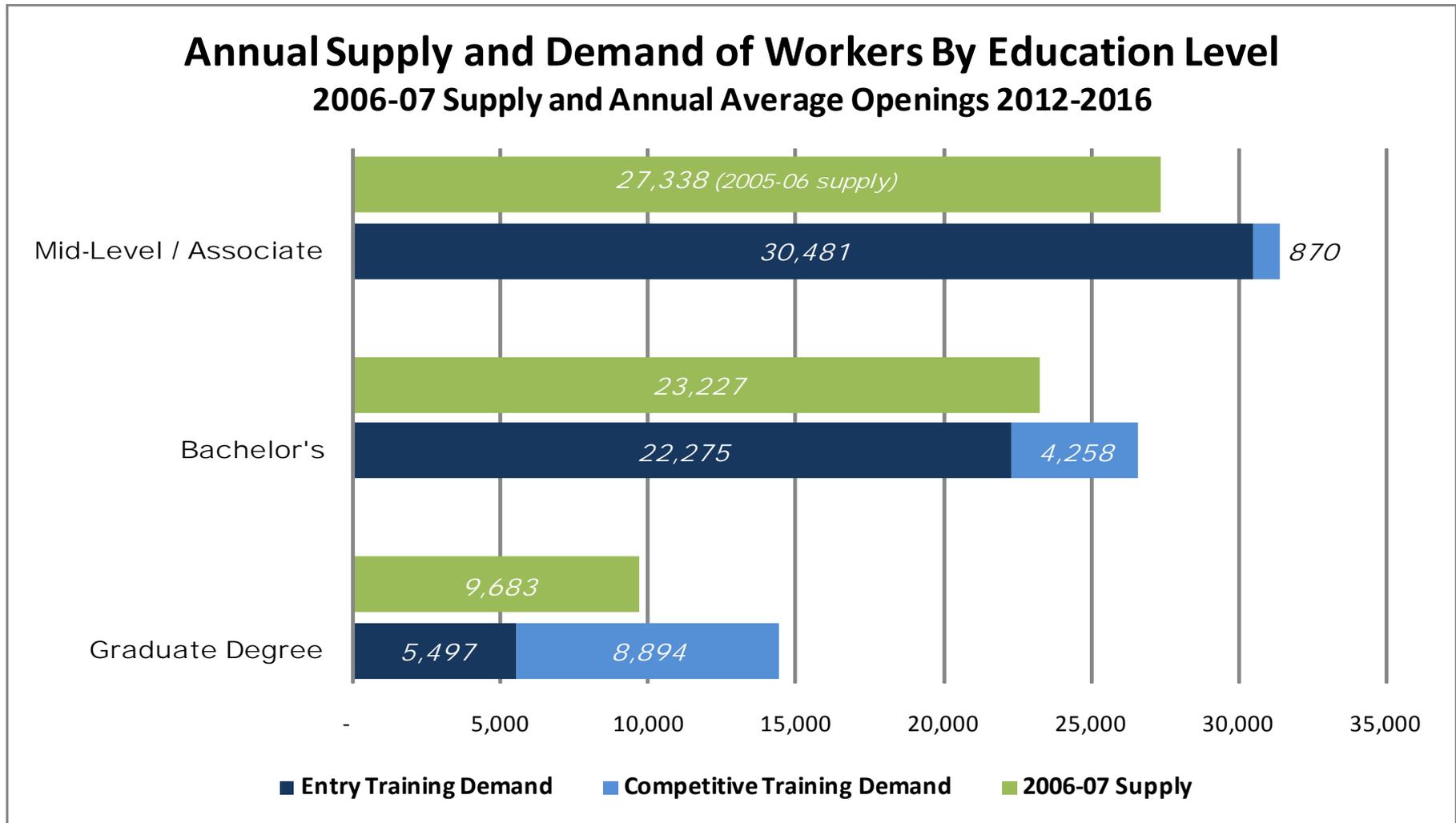
**2009**

Higher Education Coordinating Board  
State Board for Community and Technical Colleges  
Workforce Training and Education Coordinating Board

Presented by  
Bryan Wilson, Ph.D.  
Deputy Director, Workforce Board

# Supply and Employer Demand by Education Level

## *Mid-Level, Baccalaureate, Graduate*

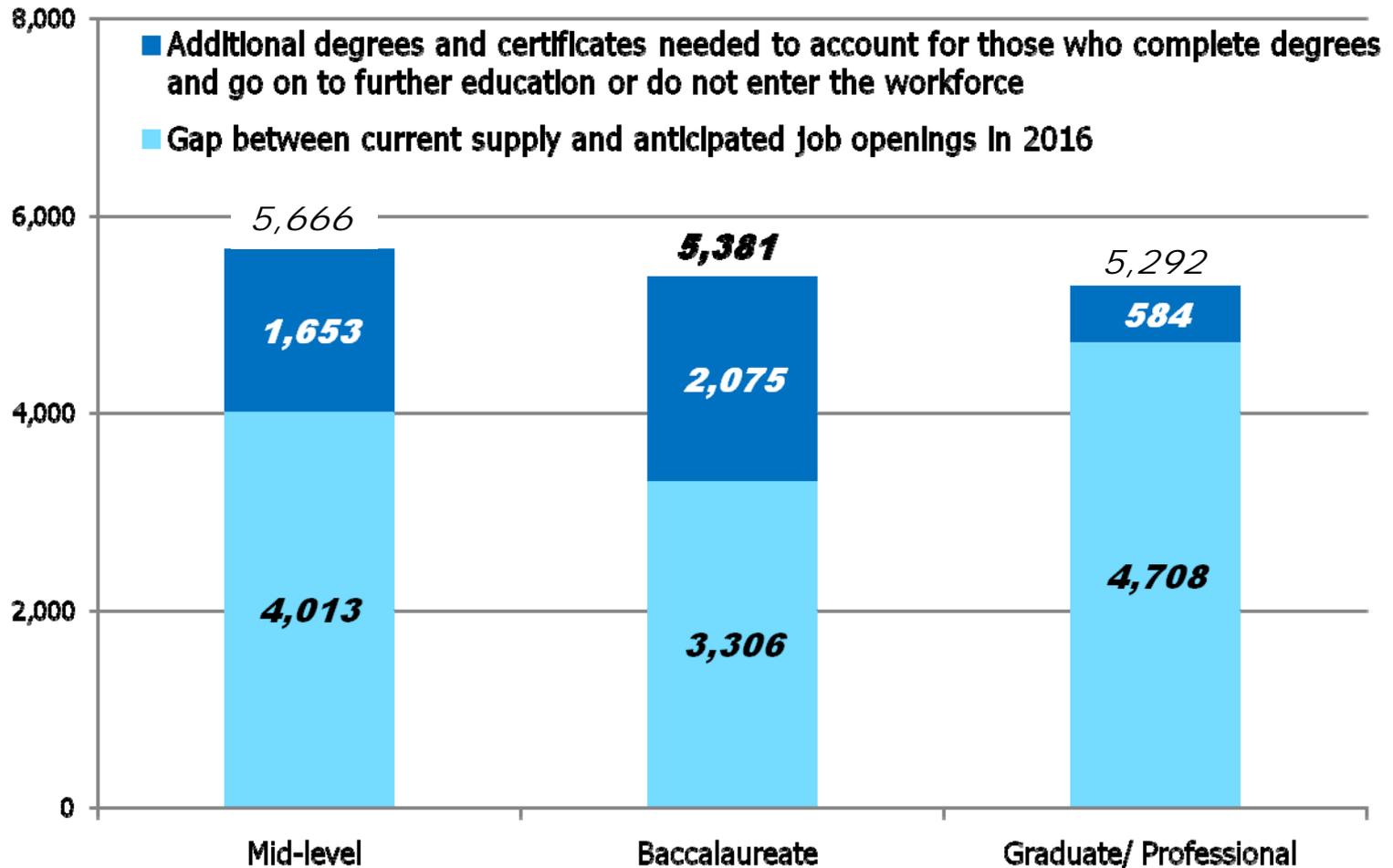


**Note:** Mid-Level includes postsecondary education leading to an apprenticeship, one-year certificate, or Associate Degree.

**Source:** HECB, WTECB, SBCTC joint analysis of June 2008 Washington ESD long-term employment forecast; Bureau of Labor Statistics Training levels; 2000 Census PUMS data.

# Degree Gaps by Education Level

## Mid-Level, Baccalaureate, Graduate

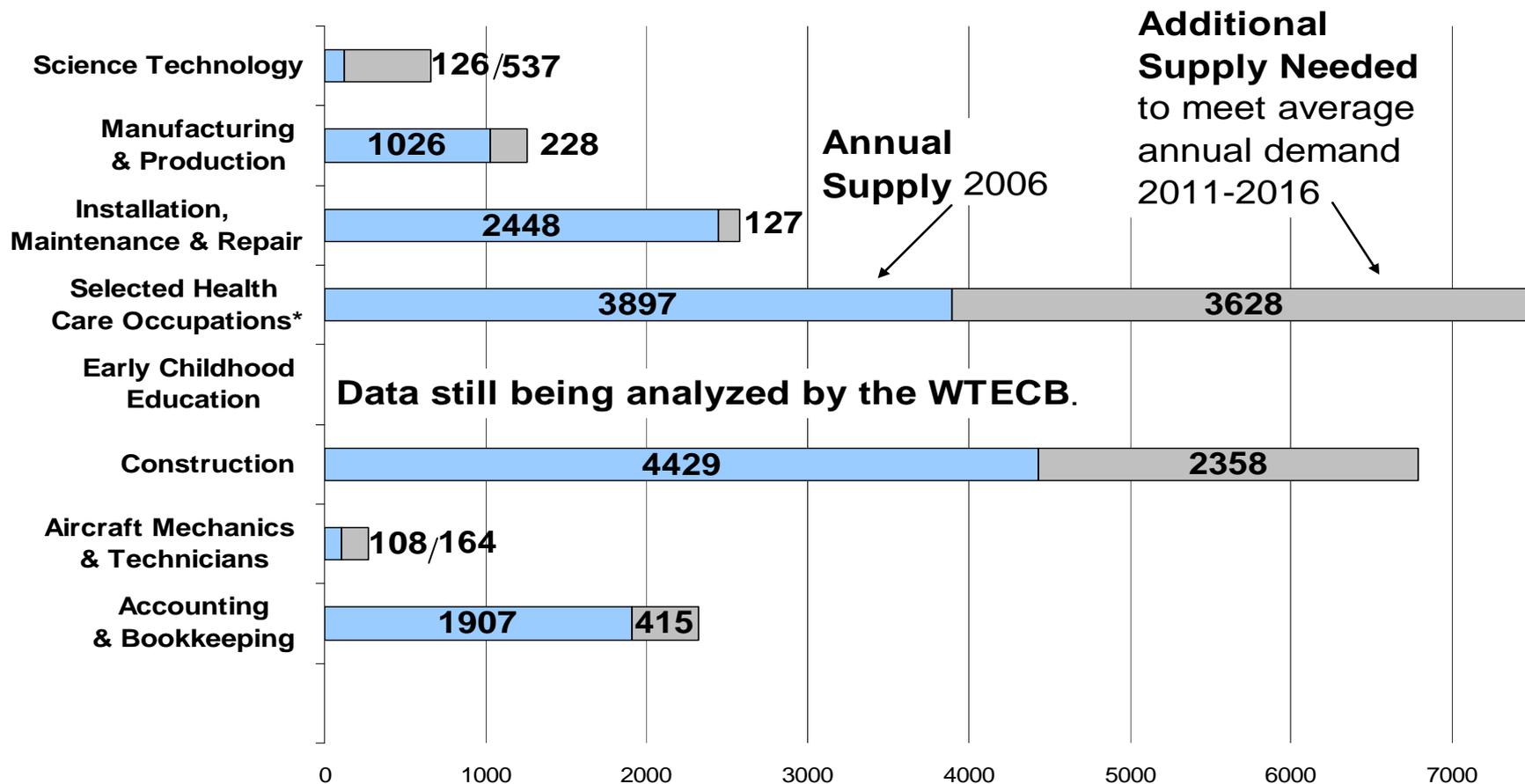


Source: HECB, SBCTC, WTECB Joint Analysis. "A Skilled and Educated Workforce" 2009 update forthcoming.

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**Where are the gaps, and are we making progress?**

# High Demand Occupations Mid-Level



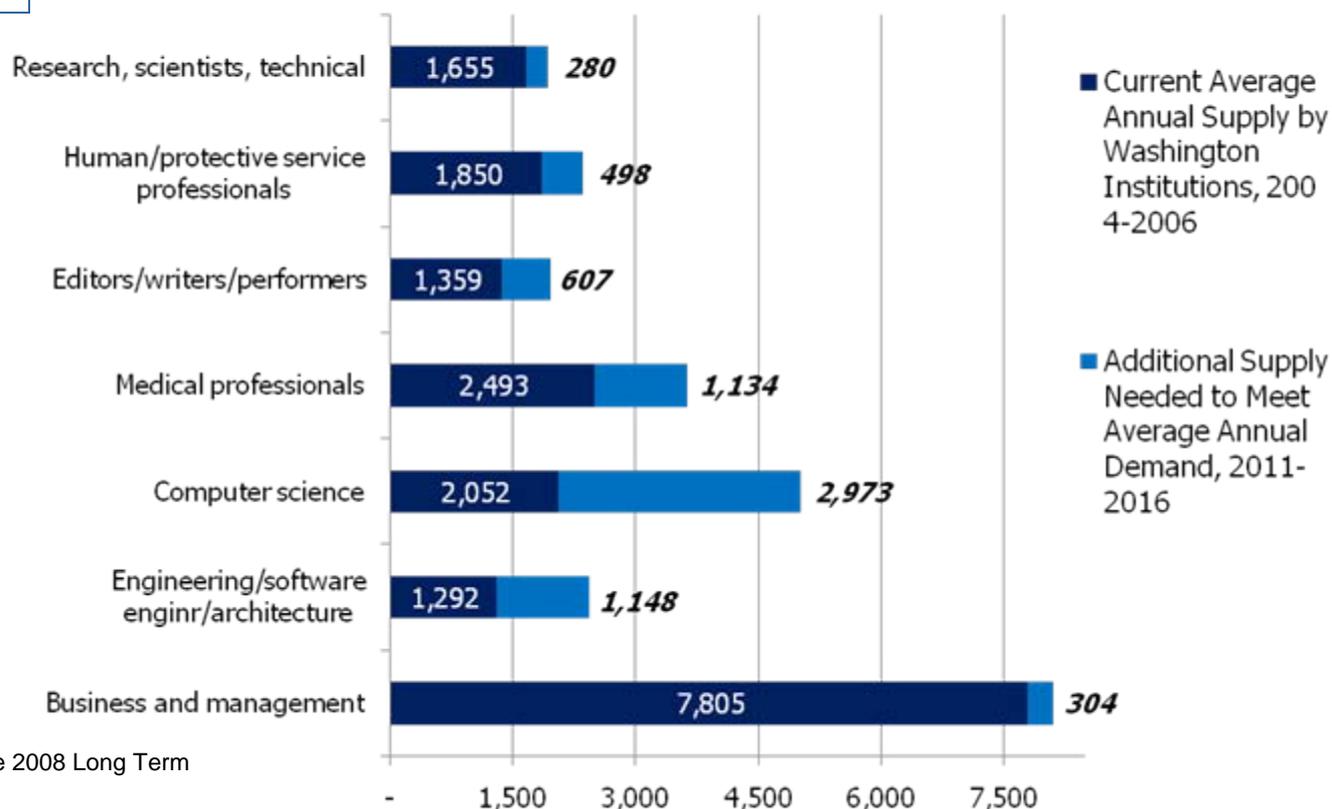
\*Data from 2007 The Health Care Shortage Task Force Report

# High Demand Occupations Baccalaureate and Above

Largest gaps are in:

- STEM Occupations
- Health Sciences

## Comparison of Current Supply with Future Demand for Baccalaureate and Graduate Degrees

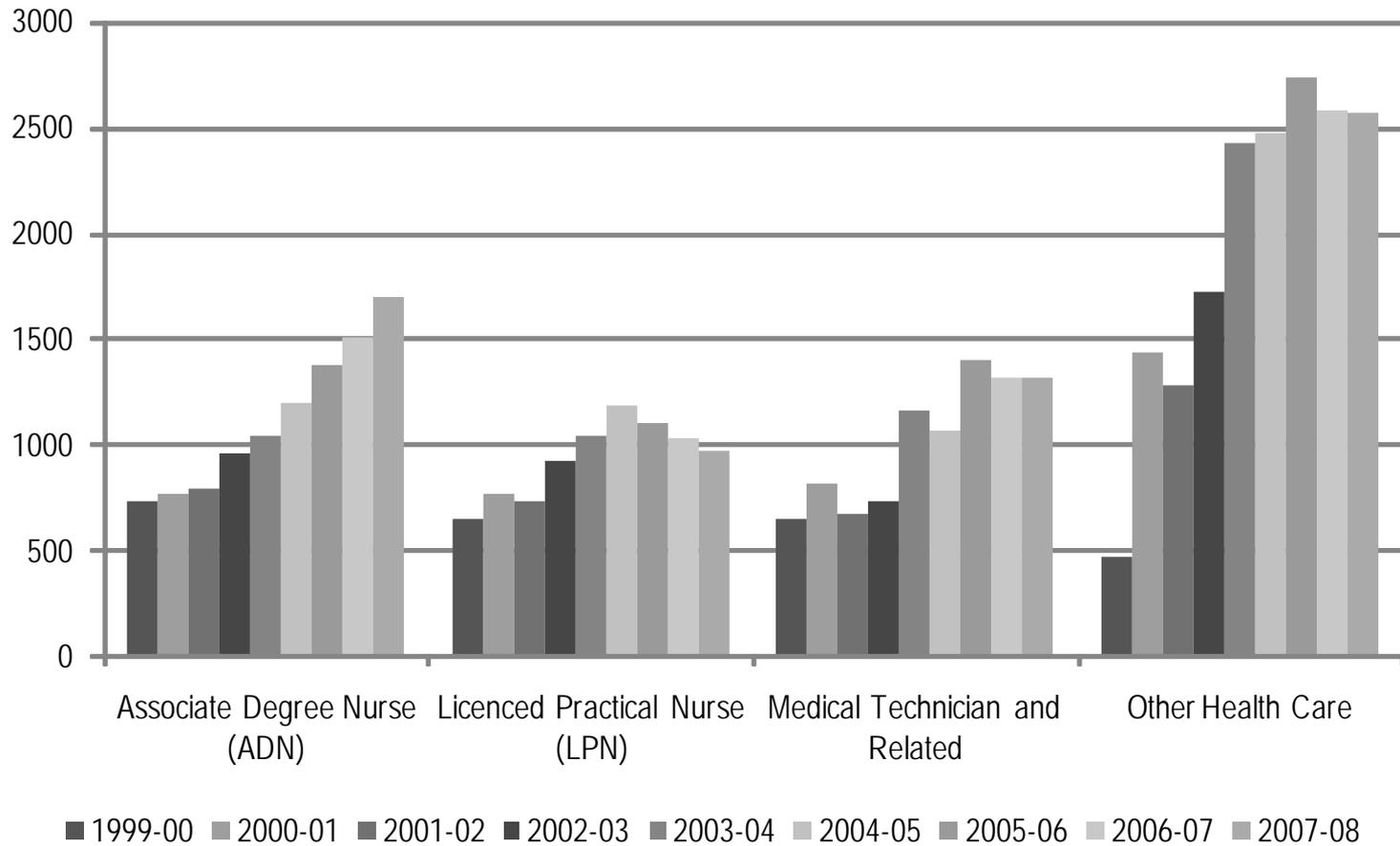


**Source:** Openings: Washington ESD June 2008 Long Term Employment Forecast

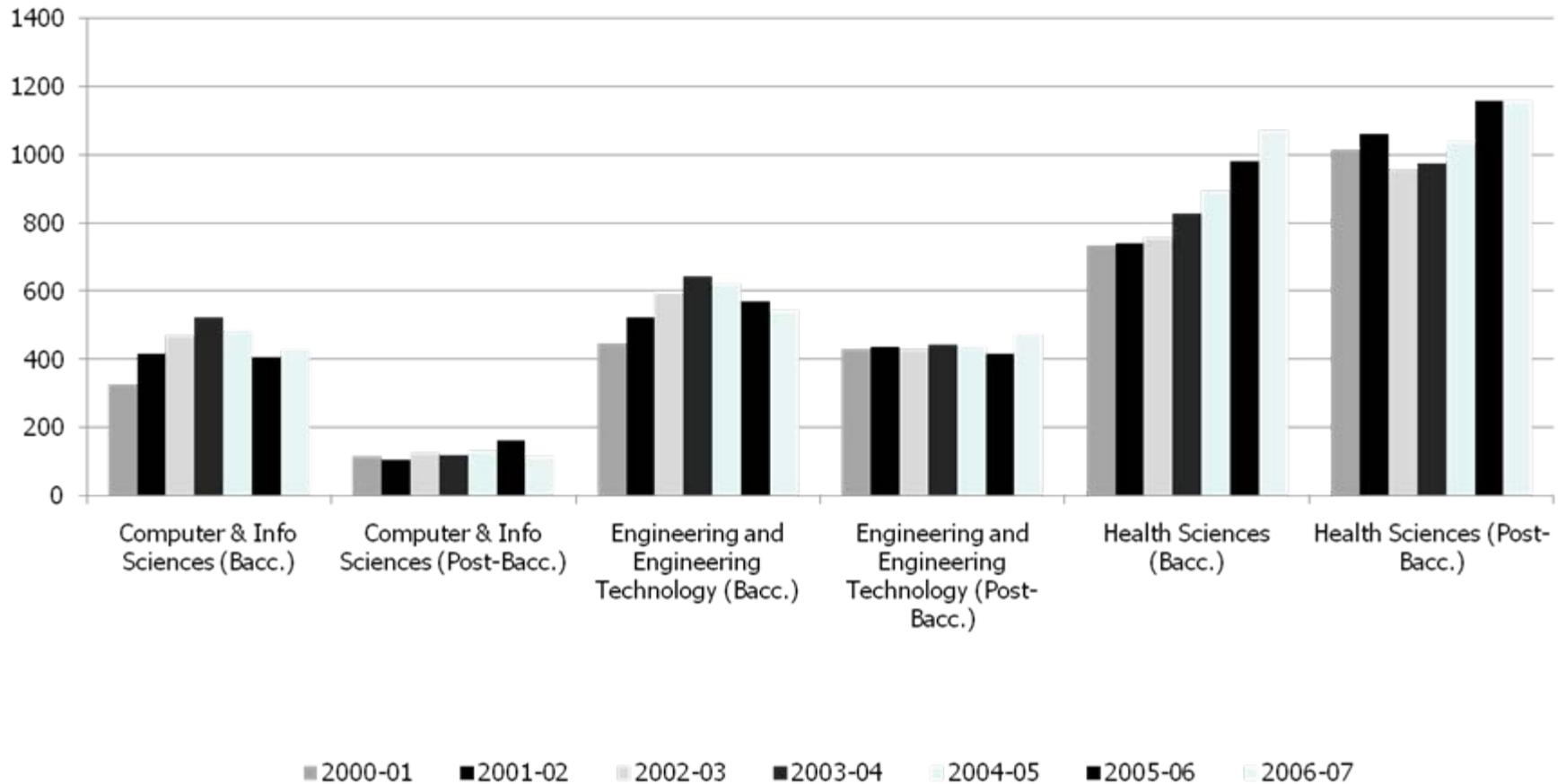
**Supply:** HECB Analysis of IPEDS data. Represents 3 Year Annual Average Degree Awards 2006-2008 adjusted for entry into the labor market.

# Allied Health Degree Production Mid-Level Degrees and Certificates, 1999-2007

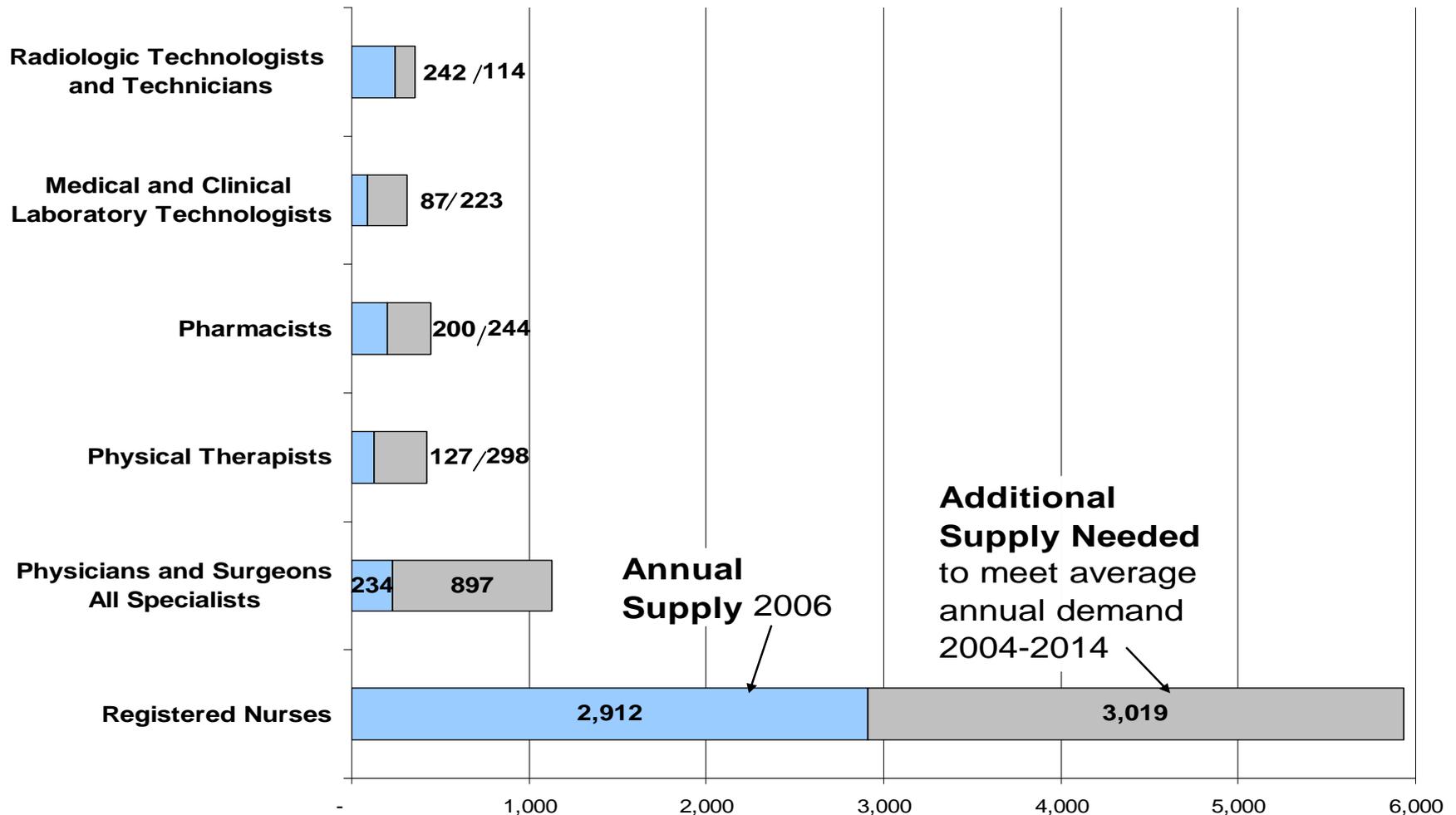
## CTC Degrees and Certificates in High Demand Allied Health



# High Demand Degree Production Bachelor's and Higher, 2000-2007



# Despite Growth Shortages Persist in Healthcare Occupations

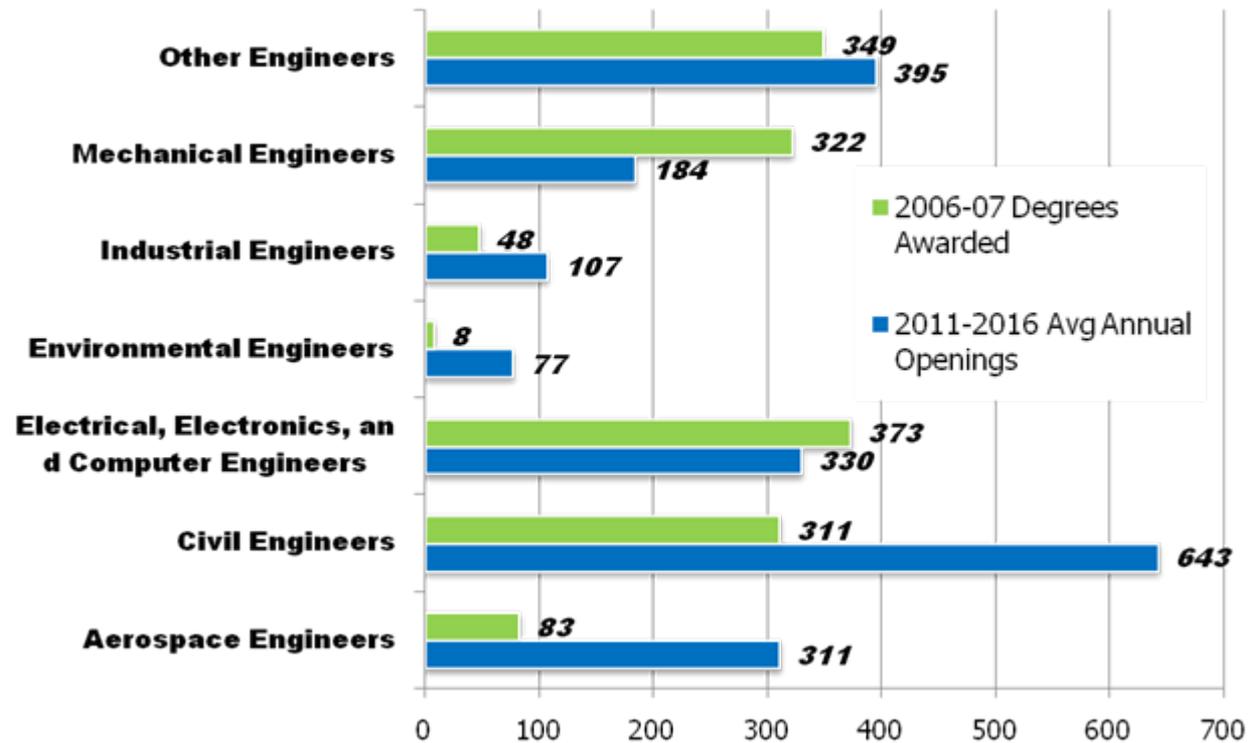


Source: Workforce Training and Education Coordinating Board

# Demand for Engineers Varies by Specialty Area

- Industrial, environmental, civil, and aerospace engineering exhibit the greatest shortages through 2016.
- Current supply may be sufficient in mechanical, electrical, electronics, and computer engineering.
- Engineers share a common set of core competencies and in some cases may work in another specialty area.

## Supply and Demand of Engineers: 2006-07 Bachelor's and Graduate Degrees Awarded and 2011-1016 Average Annual Openings



# Improving Analysis Capacity

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**In the future, we intend to improve the process through which this report is developed by:**

- Establishing a technical advisory committee to advise on methodology and data sources.
  - Survey employers and review industry publications to validate results.
- Developing clearer plans on how the three agencies will incorporate the analysis results into program plans and accountability systems, and making greater use of the results to guide resource allocation decisions.