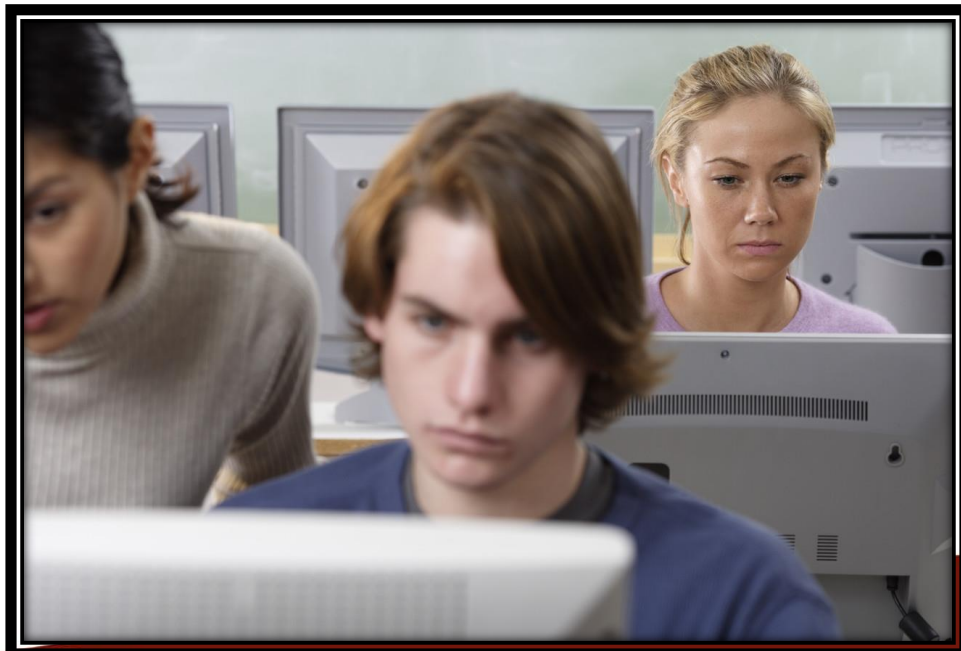




CAREERS OF THE FUTURE: What Students Need to Know About the Job Market



Highest Paying Occupations* U.S., 2010

MEDIAN WEEKLY EARNINGS

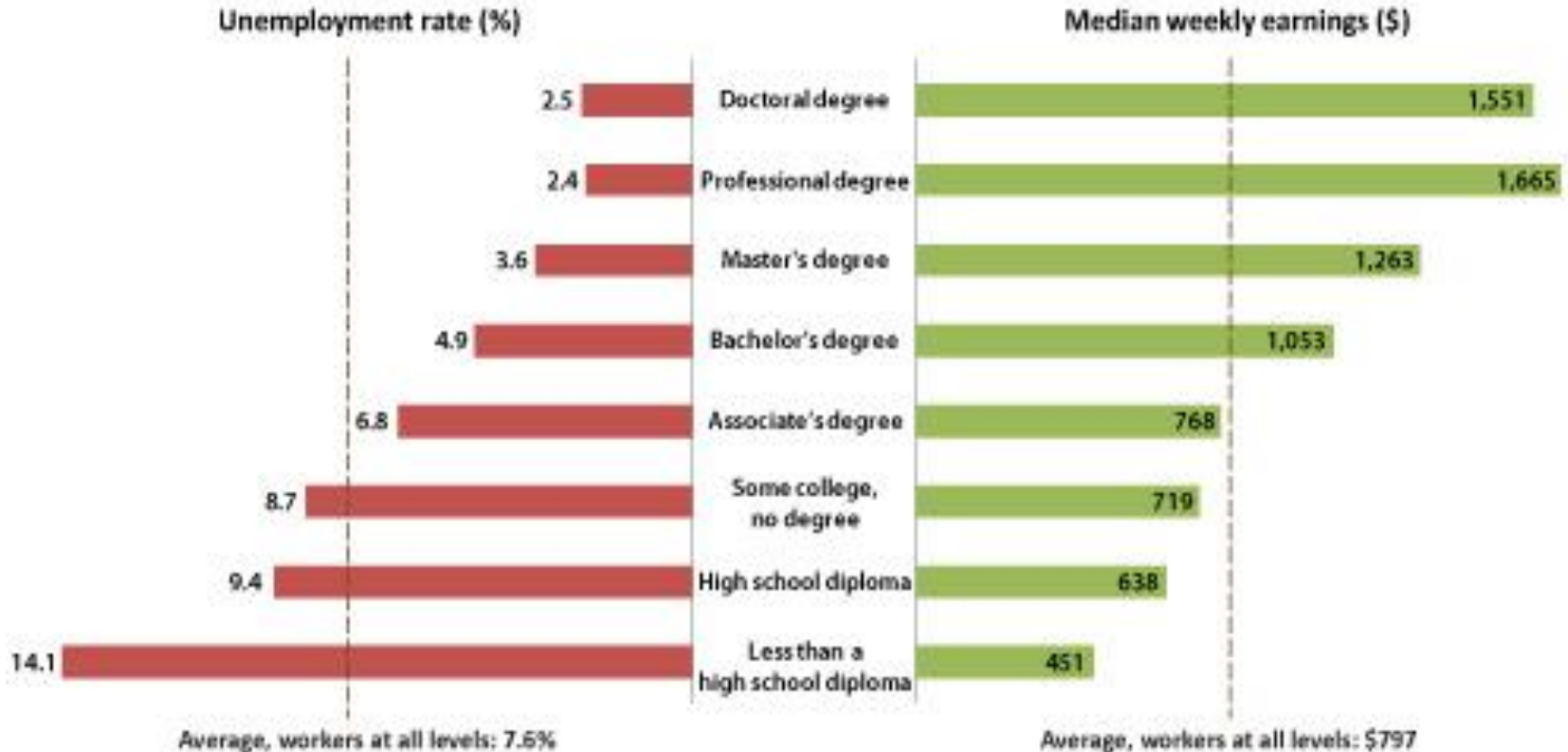
Physicians & Surgeons	\$1,975
Chief Executives	1,949
Engineering Managers	1,885
Pharmacists	1,880
Lawyers	1,757
Computer & Information Systems Managers	1,600
Aerospace Engineers	1,593
Computer Software Engineers	1,549
Computer Hardware Engineers	1,519
Chemical Engineers	1,505
Electrical & Electronics Engineers	1,459
Judges, Magistrates, & Other Judicial Workers	1,444
Chemists and Materials Scientists	1,423
Financial Analysts	1,421
Personal Financial Advisors	1,381

*Based on full-time wage & salary workers

Think you don't need an education?

THINK AGAIN!

Unemployment rates and earnings for full-time wage and salary workers ages 25 and older, by educational attainment, 2011



Source: U.S. Bureau of Labor Statistics

Education pays in higher earnings and lower unemployment rates.

It Pays to Stay in School

About 10% of people with just a high school diploma live in poverty, but the percentage doubles to 20% among those with less education.



College Majors & the Average Starting Salary (Class of 2012)

Engineering	\$61,913
Computer Science	\$59,221
Business	\$53,900
Health Sciences	\$49,196
Communications	\$43,717
Math & Sciences	\$42,471
Education	\$40,668
Humanities & Social Sciences	\$36,988



The Best Paying Jobs Require 2 or More Years of Education and/or Training

There are many sources of training:

- Apprenticeship
- On-the-Job Training
- Business Schools
- The Military
- BOCES, Technical Schools
- 2- or 4-year Colleges
- Graduate School



It doesn't matter where you get the training, as long as you get it!

The most important SKILL employers seek in job candidates is the ABILITY TO COMMUNICATE EFFECTIVELY

Also important is...

- STRONG WORK ETHIC
- TEAMWORK
- INITIATIVE
- INTERPERSONAL SKILLS
- PROBLEM-SOLVING and ANALYTICAL ABILITIES



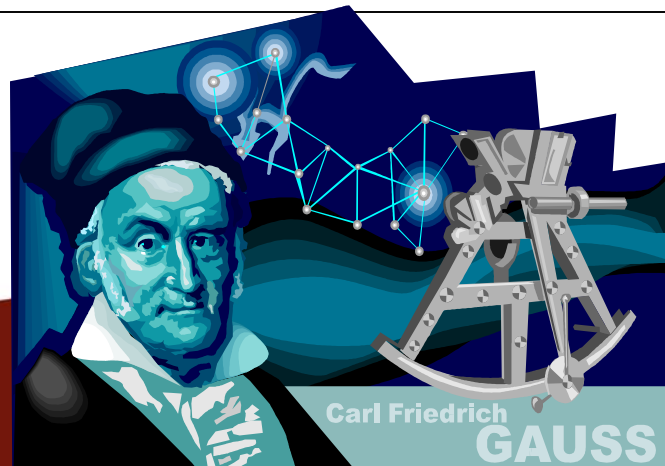
INCREASE YOUR CHANCES OF BEING HIRED BY HAVING...

- THE ABILITY TO LEARN & RETRAIN
- GOOD COMPUTER SKILLS
- RELATED EXPERIENCE THROUGH INTERNSHIPS, MENTOR RELATIONSHIPS, JOB SHADOWING & OTHER WORK EXPERIENCES
- BEING CREATIVE & FLEXIBLE



STEM OCCUPATIONS ARE GROWING:

- * **SCIENCE** (biochemist, conservation scientist)
- * **TECHNOLOGY** (computer systems analyst)
- * **ENGINEERING** (civil, electrical, environmental)
- * **MATHEMATICS** (actuary, financial analyst)



STEM OCCUPATIONS:

- Require the ability to think **logically**.
- People working in STEM careers, on average, **earned \$61,120, seventy-three percent more than the average for all workers in the Central New York Region.**
- * **Starting salaries are higher for STEM workers than for workers in many other disciplines.**
- * **Demand for STEM workers is increasing.**



Get Plugged In



People working in STEM careers, on average, earned \$61,120, 73 percent more than the average \$35,300 for all workers in the Central New York Region.

Do you want to make the world a better place to live?

If you are concerned about changes in the global environment, creating better medicines and building new gadgets to make everyday life easier, consider a STEM education. A STEM education can give you the tools to help solve some of today's most perplexing problems.

Do you wonder what puts the thrill in a roller coaster?

It takes both design and engineering skills to develop a

STEM Careers Pay!

Central New York Region

<u>Occupation</u>	<u>Annual Median* Wages</u>
Actuaries	\$98,240
Architects, Except Landscape and Naval	\$67,390
Chemists	\$66,960
Clinical, Counseling, and School Psychologists	\$74,330
Electrical Engineers	\$77,830
Family and General Practitioners	\$185,430
Information Security Analysts	\$87,060
Medical and Clinical Laboratory Technologists	\$52,740
Network and Computer Systems Administrators	\$63,190
Occupational Therapists	\$64,940
Pharmacists	\$129,490
Software Developers, Applications	\$75,890
Veterinarians	\$93,020

*Half the workers were paid wages above and half were paid wages below this value.

Emerging Fields:

Combining Science & Technology

Biotechnology

Creating new cures for diseases, new pesticides, fuel sources, etc.

Geospatial Technology

Identifies the location of natural or man-made features on the earth

Nanotechnology

The study of extremely small elements at the atomic level



Emerging Fields:

Combining Science & Technology

Telecom

Broadband & wireless technologies are expanding animation, video & other media

Energy

Developing economically viable solar power & hydrogen fuel cells

Space

The long-awaited commercialization of space could open up new frontiers & jobs. Entrepreneurs are eager to enter the space tourism business and even mine asteroids.



Emerging Occupations:

Hospitalists (can admit patients to the hospital; 24-hour resource right there within the hospital; someone on-site to deal with any situation that comes up. Increasingly common)

Patient Navigator (health care field; assist patients with serious illnesses (i.e. cancer, diabetes, etc...navigate through the health care system)

Energy Building Auditor (construction field, evaluate green building construction)

Environmental & Green Technology Occupations (solar panel installers etc..)

Social Media Coordinator

Examples of Common Green Jobs:

General & Operations Managers

Engineering Managers

Purchasing Agents, Exc. Wholesale, Retail, & Farm Products

Accountants & Auditors

Mechanical Engineers

Sales Representatives, Wholesale & Manufacturing, Except
Technical & Scientific Products

Bookkeeping, Accounting, & Auditing Clerks

Production, Planning, & Expediting Clerks

Shipping, Receiving & Traffic Clerks

Executive Secretaries & Administrative Assistants

Office Clerks, General

Maintenance & Repair Workers, General



Examples of Common Green Jobs:

First-Line Supervisors/Managers of Production & Operating Workers

Machinists

Welders, Cutters, Solderers, & Brazers

Construction Laborers

Electricians

Cutting, Punching, & Press Machine Setters, Operators, Tenders, Metal & Plastic

Team Assemblers

Electrical & Electronic Equipment Assemblers

Inspectors, Testers, Sorters, Samplers, & Weighers

Helpers - Production Workers

Laborers & Freight, Stock, & Material Movers, Hand

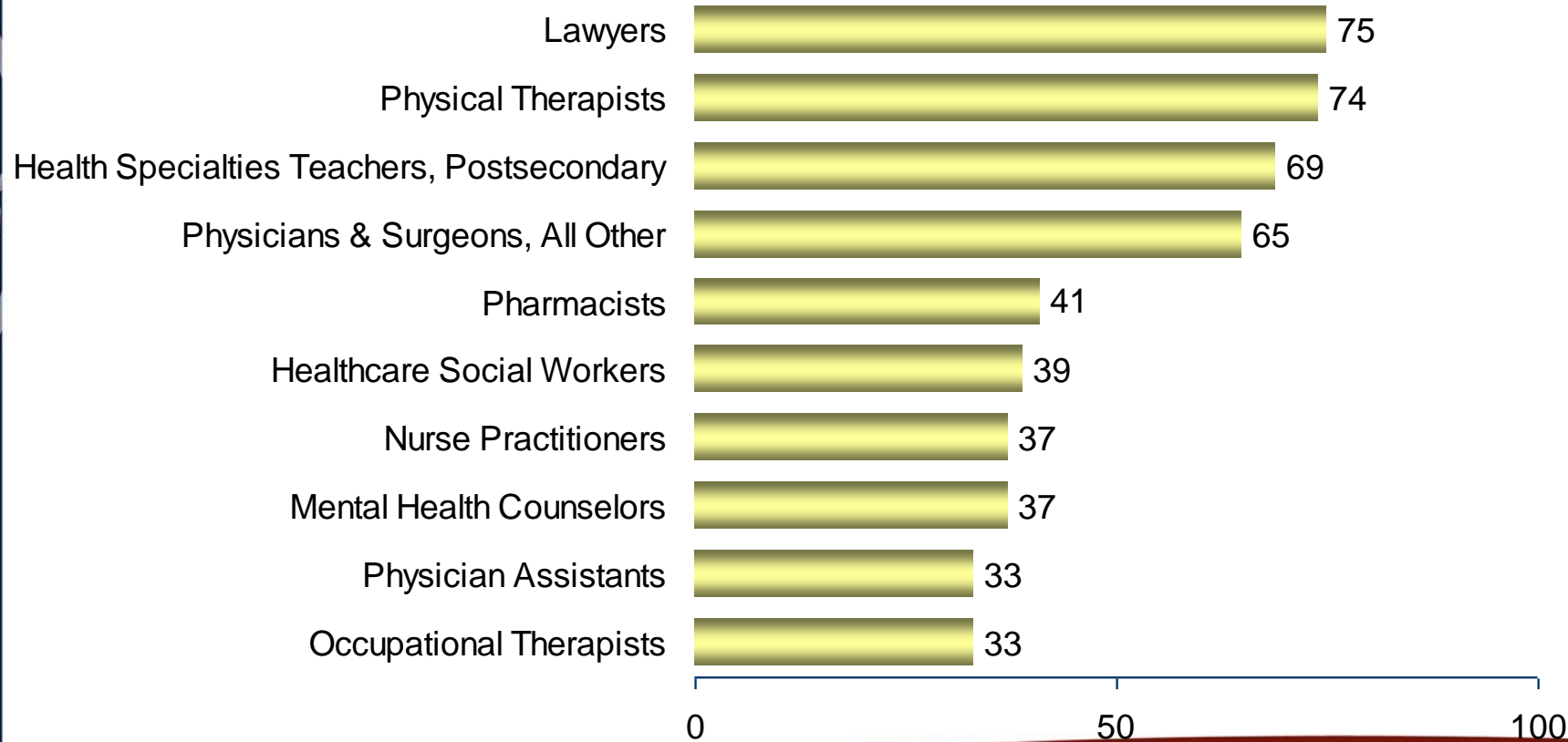


Fastest-Growing Occupations in the U.S., 2012 - 2022

<u>OCCUPATION</u>	<u>MEDIAN ANNUAL WAGES, MAY 2012</u>
Industrial-Organizational Psychologists	\$83,580
Personal Care Aides	19,910
Home Health Aides	20,820
Insulation Workers, Mechanical	39,170
Interpreters & Translators	45,430
Diagnostic Medical Sonographers	65,860
Helpers – Brickmasons, Blockmasons, Stonemasons, & Tile & Marble Setters	28,220
Occupational Therapy Assistants	53,240
Genetic Counselors	56,800
Physical Therapist Assistants	52,160

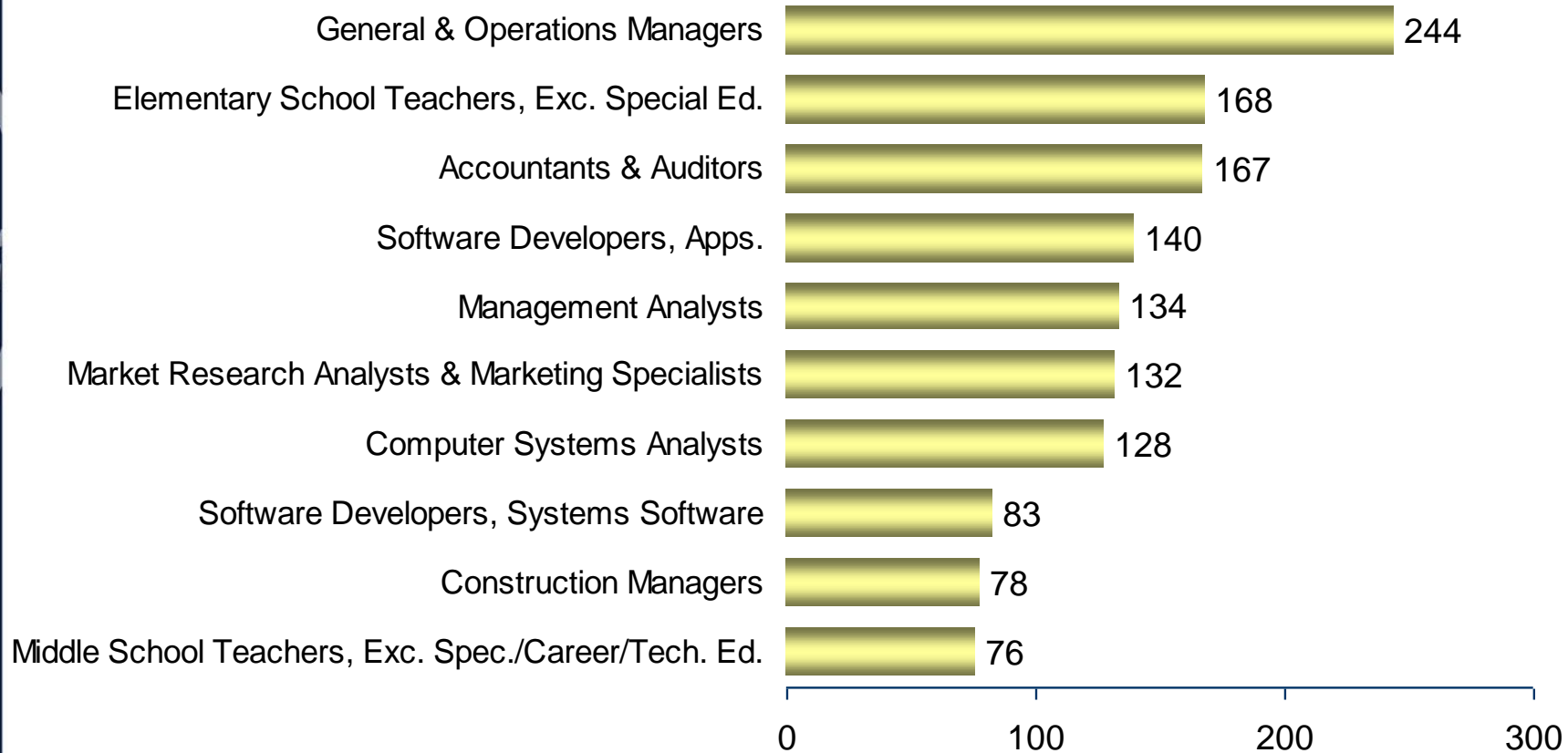
SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Projections 2012–2022

Occupations With The Most Growth Requiring a Master's, Doctoral, or Professional Degree



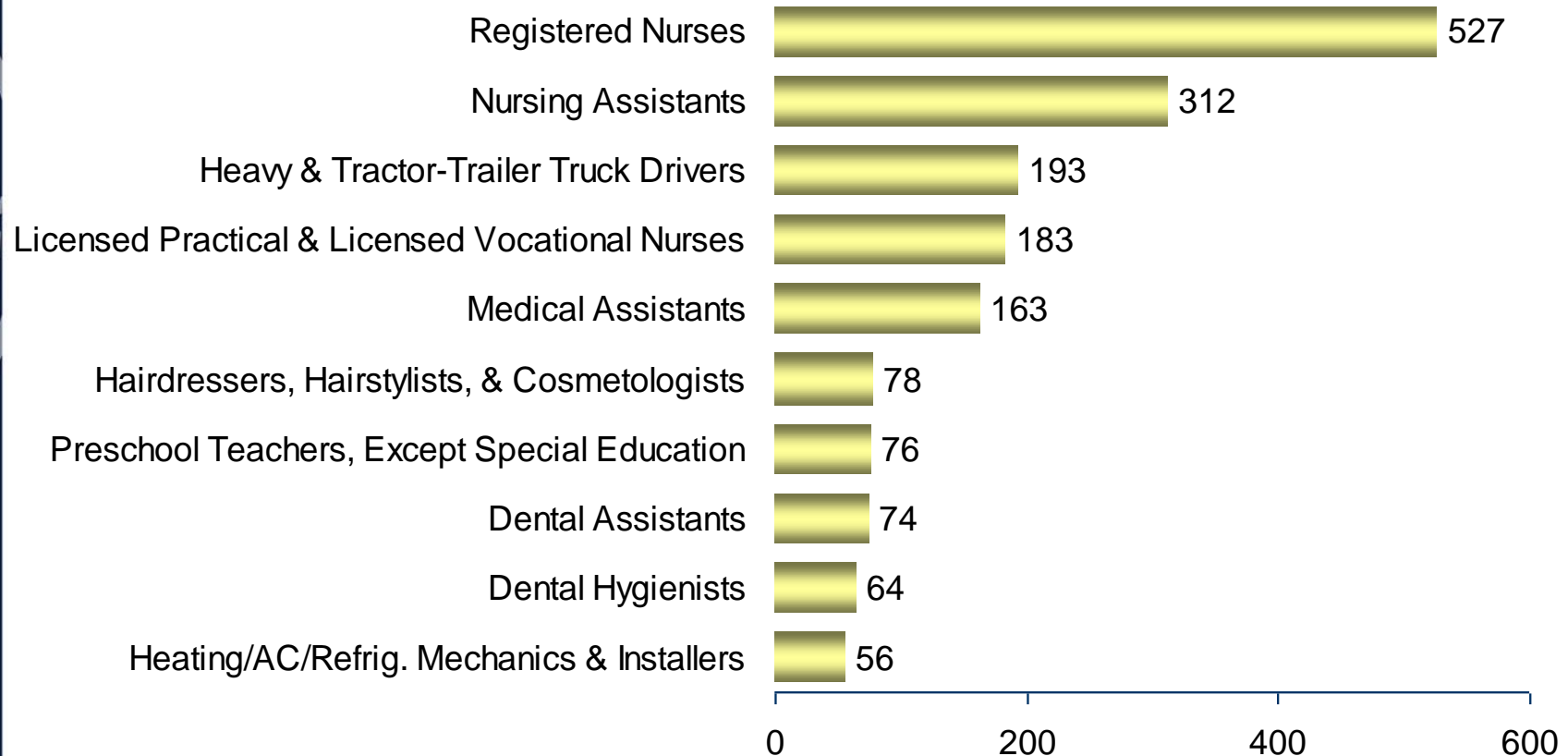
Source: U.S. Dept. of Labor Projections between 2012 and 2022. (Thousands of jobs)

Occupations With High Growth Requiring a Bachelor's Degree



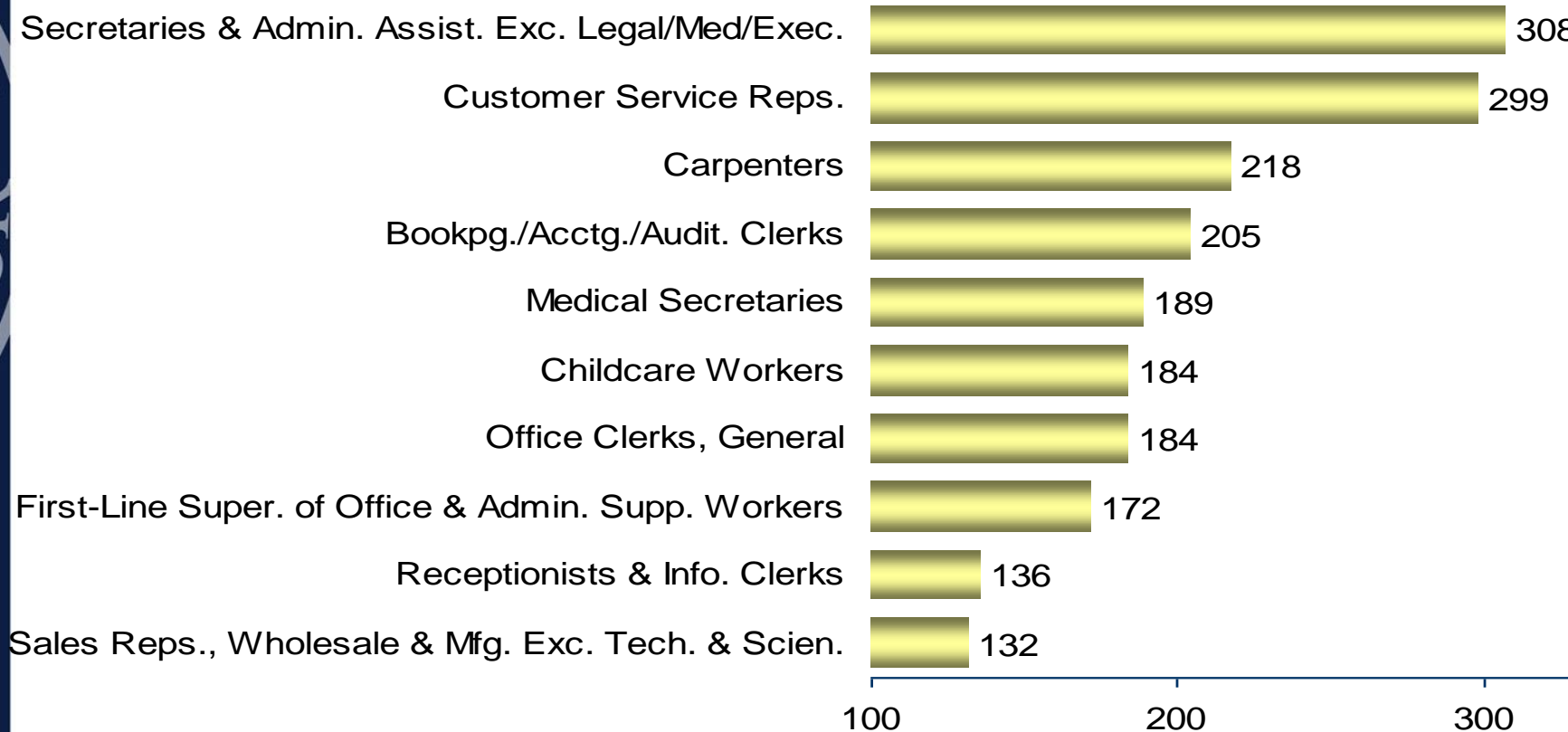
Source: U.S. Dept. of Labor Projections between 2012 and 2022. (Thousands of jobs)

Occupations With High Growth Requiring an Associate's Degree or Postsecondary Non-Degree Award



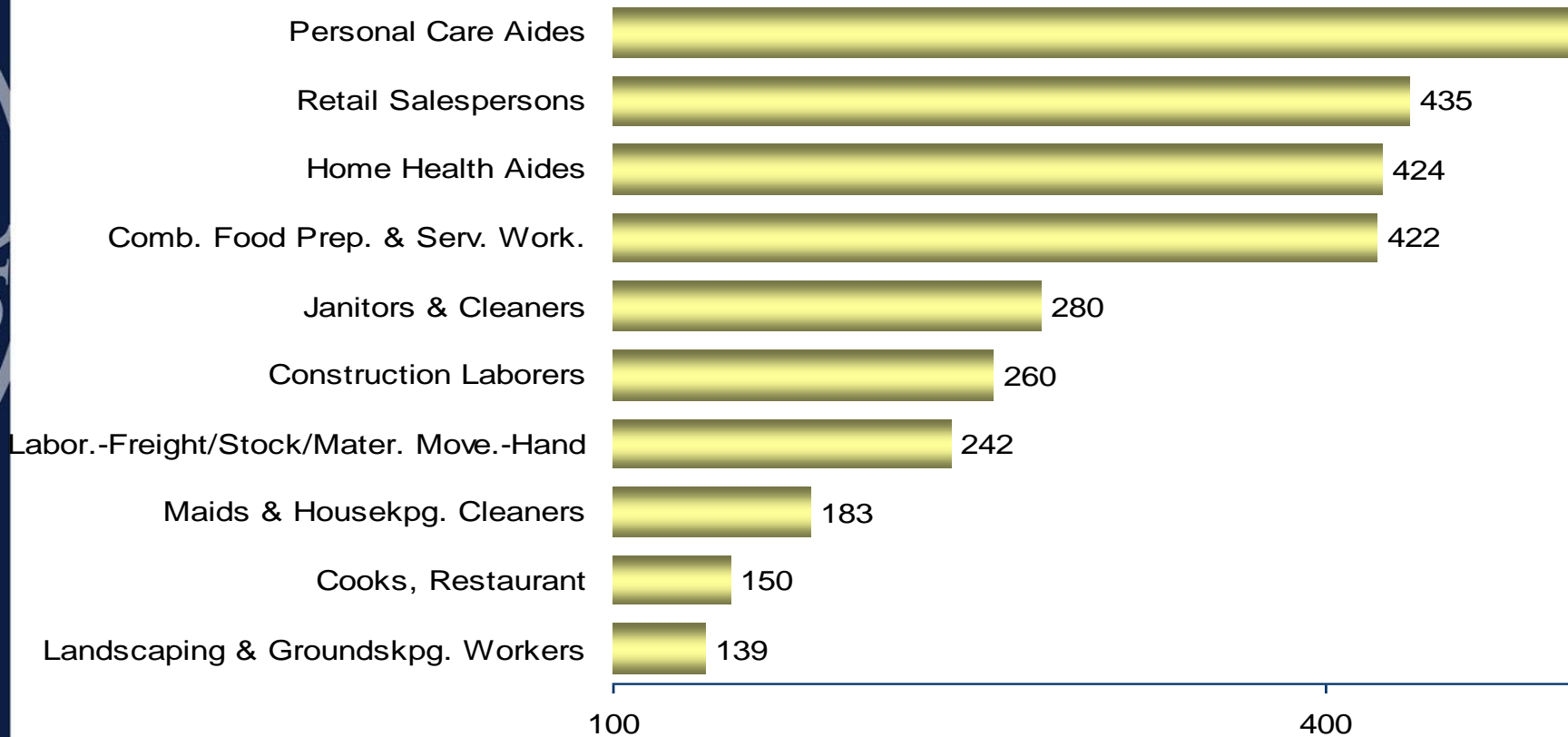
Source: U.S. Dept. of Labor Projections between 2012 and 2022. (Thousands of jobs)

Occupations With High Growth Requiring a High School Diploma or Equivalent



Source: U.S. Dept. of Labor Projections between 2012 and 2022. (Thousands of jobs)

Occupations With High Growth Less than a High School Diploma



Source: U.S. Dept. of Labor Projections between 2012 and 2022. (Thousands of jobs)

Youth-Related Career Information on the WEB

www.careerzone.ny.gov

A career exploration tool



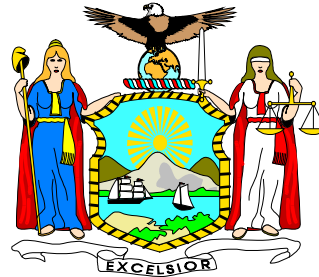
www.bls.gov/k12/

Exploring career information – what interests you?

www.labor.ny.gov

Labor laws for youth, career information, resources

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