

WE ARE YOUR DOL



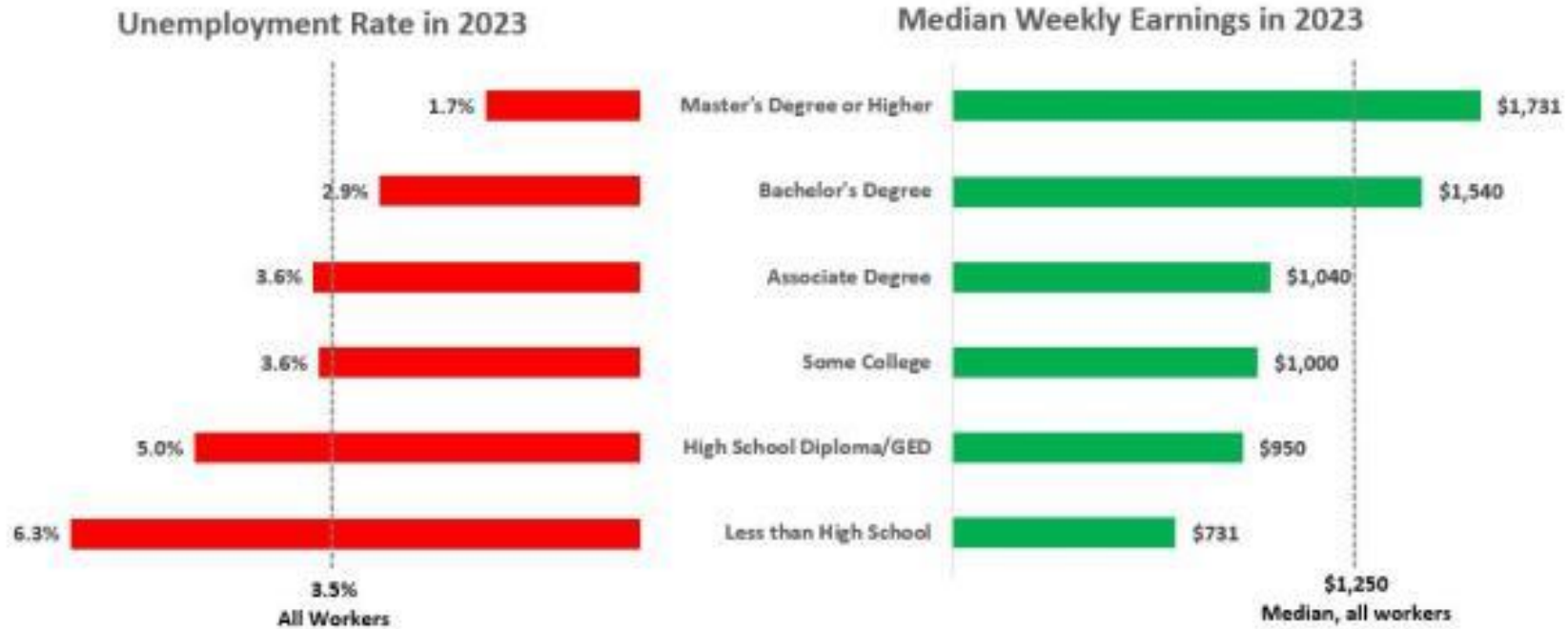
NEW YORK
STATE OF
OPPORTUNITY.

**Department
of Labor**

**CAREERS OF THE FUTURE:
WHAT STUDENTS NEED TO KNOW
ABOUT THE JOB MARKET**

Think you don't need an education? THINK AGAIN!

Unemployment Rates and Weekly Earnings(Full-Time Wage and Salary Workers)
Age 25 and Over by Educational Attainment, New York, 2023



Source: Current Population Survey


Source: Current Population Survey

Education pays in higher earnings and lower unemployment rates.

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Highest Paying Occupations

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Highest paying occupations: 20 occupations with the highest median annual pay.

Click on an occupation name to see the full occupational profile.

OCCUPATION	2023 MEDIAN PAY
Oral and maxillofacial surgeons	This wage is equal to or greater than \$239,200 per year
Surgeons, all other	This wage is equal to or greater than \$239,200 per year
Pediatric surgeons	This wage is equal to or greater than \$239,200 per year
Orthopedic surgeons, except pediatric	This wage is equal to or greater than \$239,200 per year
Ophthalmologists, except pediatric	This wage is equal to or greater than \$239,200 per year
Radiologists	This wage is equal to or greater than \$239,200 per year

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.



Average Starting Salaries by Discipline/Bachelor's Degrees

BROAD CATEGORY	2017 AVERAGE SALARY
Engineering	\$66,097
Computer Science	\$65,540
Math & Sciences	\$59,368
Business	\$54,803
Agriculture & Natural Resources	\$54,364
Social Sciences	\$53,459
Communications	\$51,925
Humanities	\$48,733

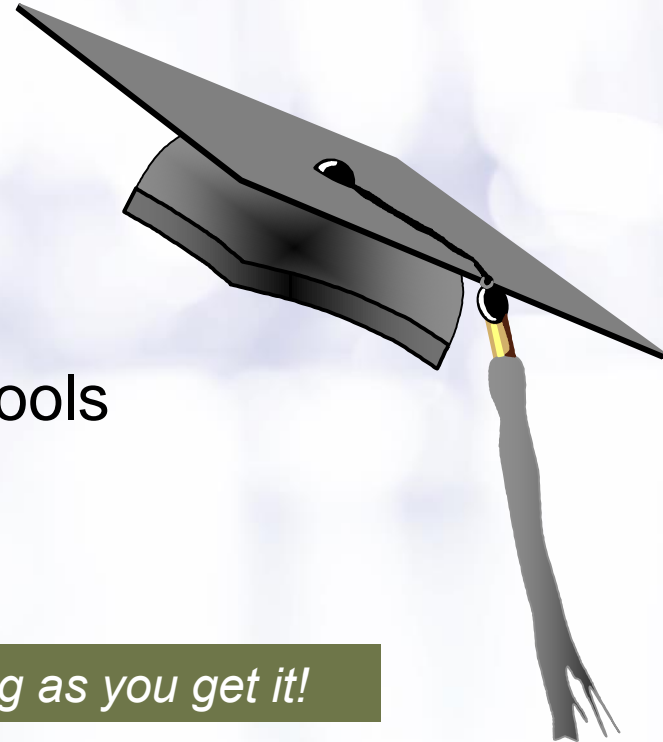


Source: Winter 2017 Salary Survey, National Association of Colleges and Employers

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!

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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



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STEM OCCUPATIONS ARE GROWING:

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



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STEM OCCUPATIONS:

- **Require the ability to think logically.**
- **People working in STEM careers locally earned a median wage of \$69,470 a year, which is 41 percent higher than the median annual wage 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.**



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The median wage of Central New York Region STEM occupations is \$69,470 a year, which is 41 percent higher than the median annual wage of \$49,140 for all workers in the region.

STEM CAREERS: CENTRAL NEW YORK

OCCUPATION	MEDIAN ANNUAL WAGE*
ARCHITECTS, EXCEPT LANDSCAPE AND NAVAL	\$92,987
AUTOMOTIVE SERVICE TECHNICIANS AND MECHANICS	\$49,511
BIOLOGICAL TECHNICIANS	\$50,408
CIVIL ENGINEERS	\$87,108
COMPUTER AND INFORMATION SYSTEMS MANAGERS	\$158,937
DATA SCIENTISTS	\$86,303
DENTISTS, GENERAL	\$176,335
ELECTRICAL ENGINEERS	\$104,984
ENVIRONMENTAL SCIENTISTS AND SPECIALISTS, INCLUDING HEALTH	\$77,914
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	\$59,311
INDUSTRIAL ENGINEERING TECHNICIANS	\$60,701
INFORMATION SECURITY ANALYSTS	\$93,511

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.

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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.

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Emerging Occupations/Industries:

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

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

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

Social Media Coordinators

Chief Diversity Officers

Biomedical Engineering Technologies (repair medical equipment in hospitals, Dr. offices, etc...)

Emerging Occupations/Industries:

Elder Concierge Services (non-health care services such as household chores, running errands, driving clients to doctor appointments, and companionship activities).

Ethical Hacker (these professionals hack their employers' systems looking for security vulnerabilities).

Chief Listening Officer (closely monitor conversations on social platforms to cultivate the company brand externally and engage with internal feedback).

Cybersecurity

Robotic Engineers

Data Scientists

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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



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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



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Fastest Growing Occupations

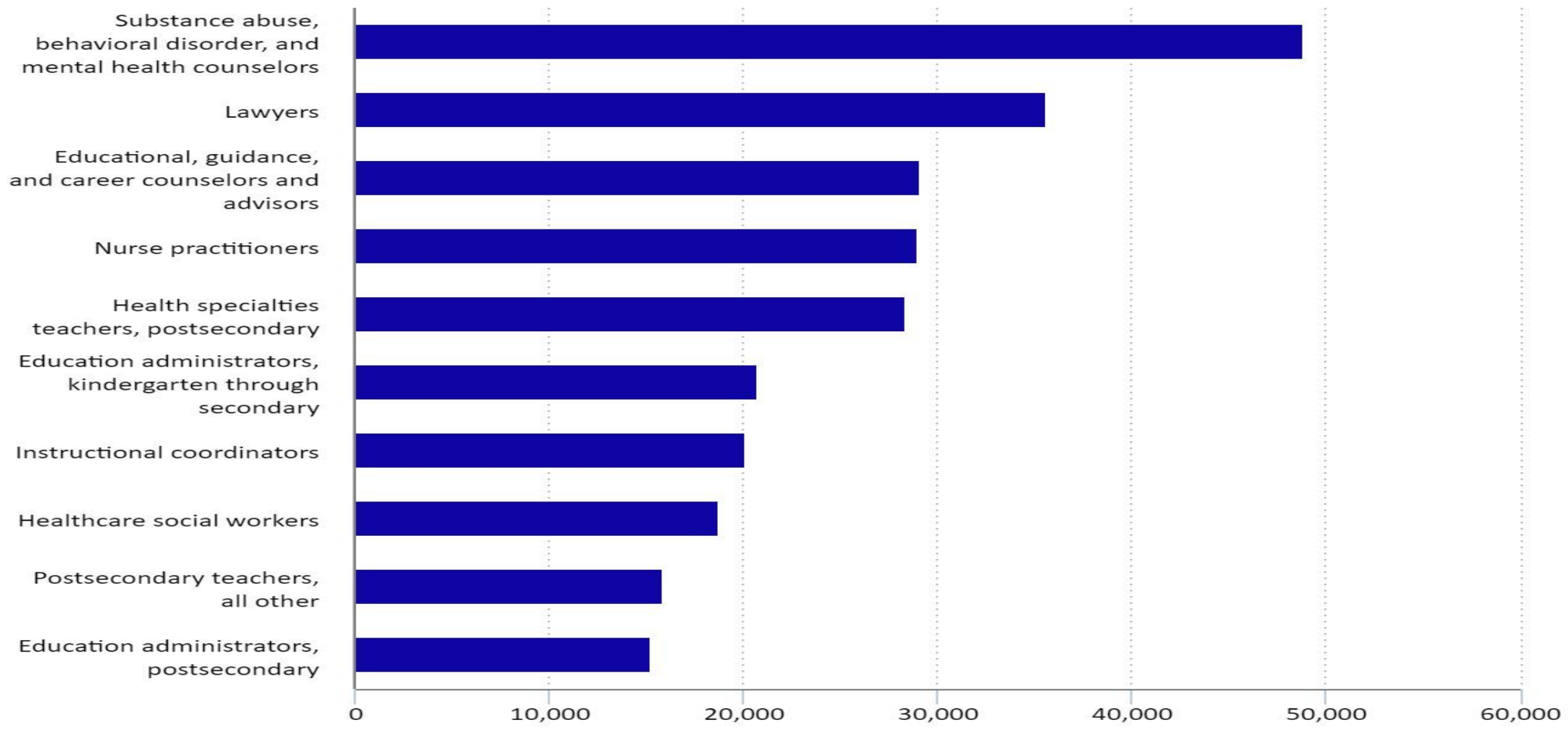
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Fastest growing occupations: 20 occupations with the highest projected percent change of employment between 2023-33.

Click on an occupation name to see the full occupational profile.

OCCUPATION	GROWTH RATE, 2023-33	2023 MEDIAN PAY
Wind turbine service technicians	60%	\$61,770 per year
Solar photovoltaic installers	48%	\$48,800 per year
Nurse practitioners	46%	\$126,260 per year
Data scientists	36%	\$108,020 per year
Information security analysts	33%	\$120,360 per year
Medical and health services managers	29%	\$110,680 per year
Physician assistants	28%	\$130,020 per year
Computer and information research scientists	26%	\$145,080 per year
Physical therapist assistants	25%	\$64,080 per year
Operations research analysts	23%	\$83,640 per year
Occupational therapy assistants	22%	\$67,010 per year

Chart 5. Graduate degree to enter: Occupations projected to have the most openings each year, on average, 2023–33

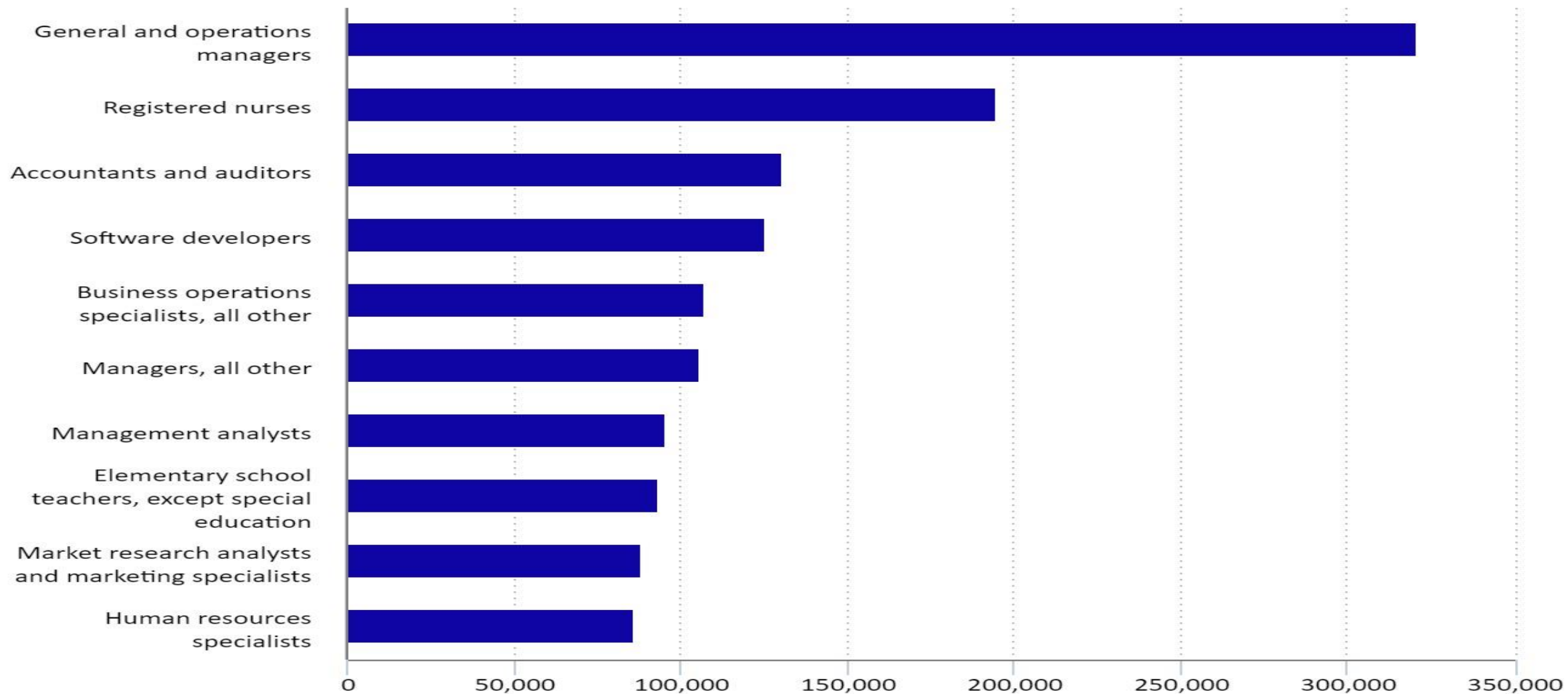


Hover over chart to view data.

Source: U.S. Bureau of Labor Statistics, Office of Occupational Statistics and Employment Projections.



Chart 4. Bachelor's degree to enter: Occupations projected to have the most openings each year, on average, 2023–33



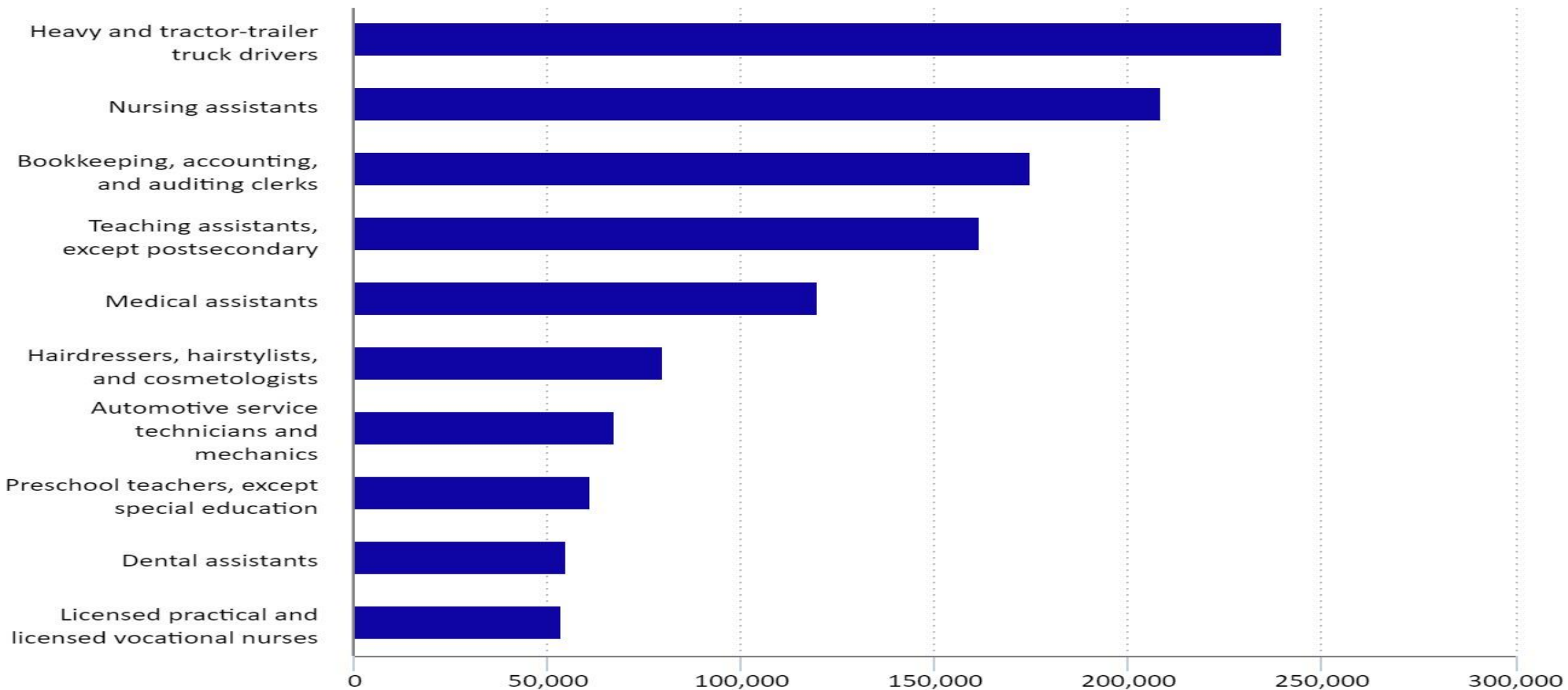
Hover over chart to view data.

Note: None of the occupations in the table typically require on-the-job training for competency.

Source: U.S. Bureau of Labor Statistics, Office of Occupational Statistics and Employment Projections.



Chart 3. Postsecondary education, but not a bachelor's degree to enter: Occupations projected to have the most openings each year, on average, 2023–33



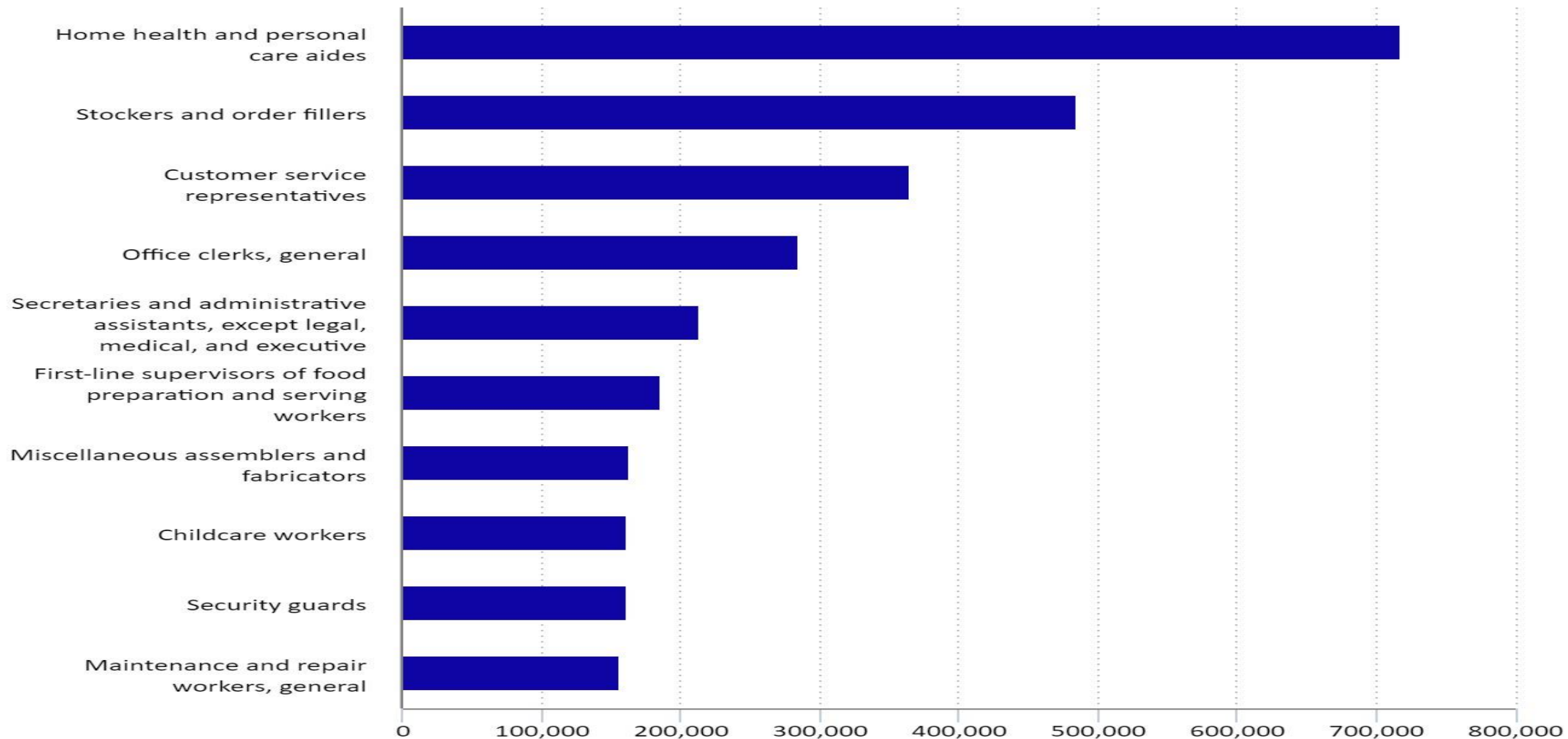
Hover over chart to view data.

Note: None of the occupations in the table typically require work experience in a related occupation for entry.

Source: U.S. Bureau of Labor Statistics, Office of Occupational Statistics and Employment Projections.



Chart 2. High school diploma or the equivalent to enter: Occupations projected to have the most openings each year, on average, 2023–33

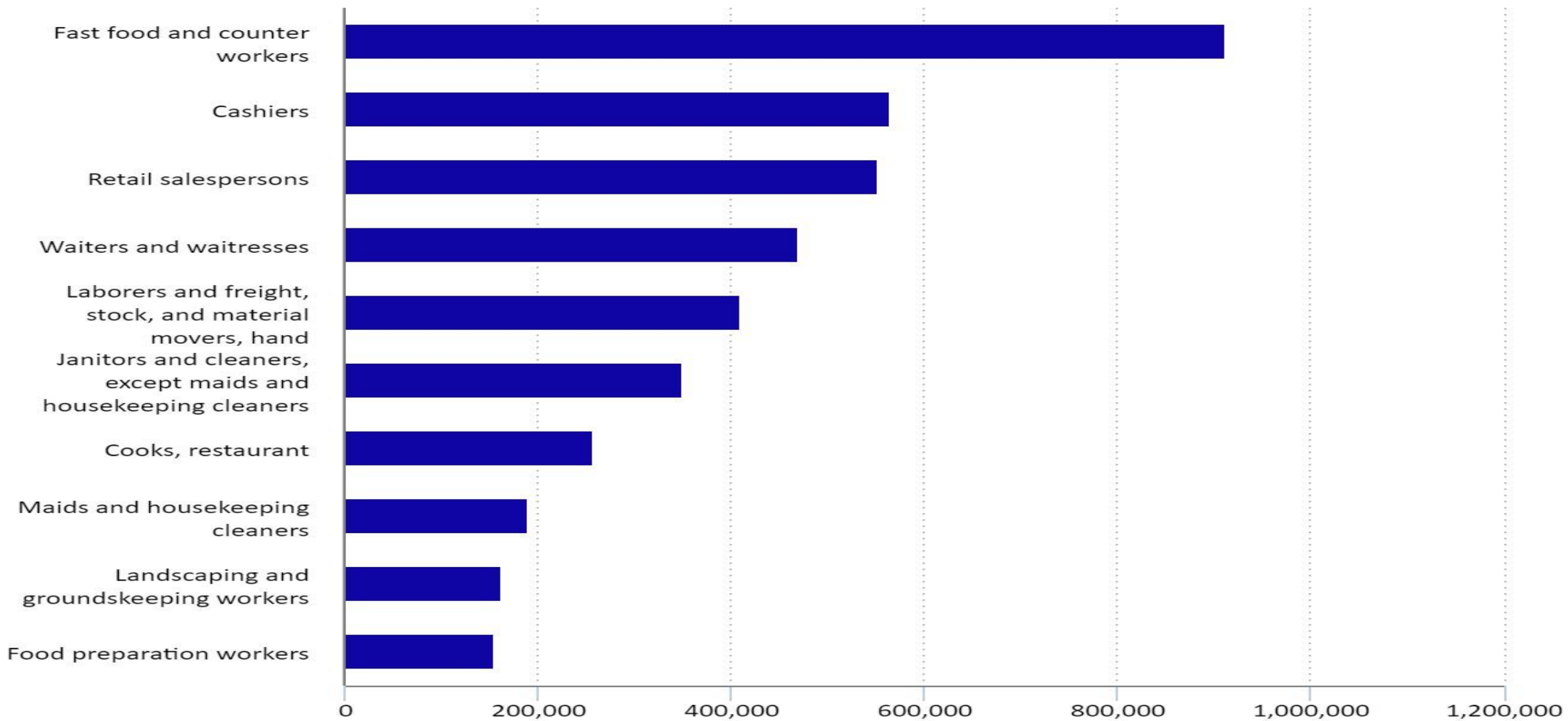


Hover over chart to view data.

Source: U.S. Bureau of Labor Statistics, Office of Occupational Statistics and Employment Projections.



Chart 1. No formal educational credential to enter: Occupations projected to have the most openings each year, on average, 2023–33



Hover over chart to view data.

Source: U.S. Bureau of Labor Statistics, Office of Occupational Statistics and Employment Projections.



Youth-Related Career Information on the WEB

careerzone.ny.gov

A career exploration tool



bls.gov/k12/

Exploring career information – what interests you?

dol.ny.gov

Labor laws for youth, career information, resources

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