



# 2019

# The Greater New Orleans Jobs Report

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PRESENTED BY



# A word from Bank of America

Over the last several years, Bank of America Merrill Lynch has expanded its presence in the Greater New Orleans region and has found GNO, Inc. to be a strong partner. In 2019, we invested in the Greater New Orleans Jobs Report, a cross-sector research report of current and projected middle and high skill occupational needs for the Greater New Orleans region. In the following pages, you'll see the findings unveiled.

GNO, Inc. tackles an important task - addressing workforce development needs to enhance resiliency by increasing regional capacity to retain and expand businesses, create jobs, and grow revenues.

Workplace evolution is all around us. From delivery drones to hologram meetings, the workplace of the not-too-distant future could look very different than it does today. The advances are accelerating to the point where there is even a new name for the phenomenon — Industry 4.0 — predicted to be every bit as seismic as the moves to steam power, assembly lines, and the Internet.

Workforce development is a priority for Bank of America Merrill Lynch and our clients. GNO, Inc.'s leadership is crucial in the regional workforce development landscape, specifically their work to align industry demand with training and education opportunities in the region.

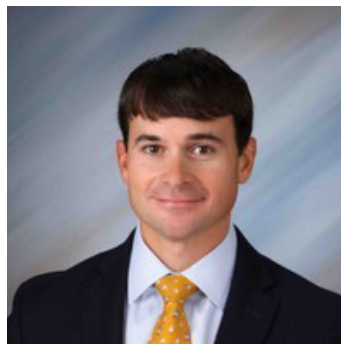
In the pages that follow, you will discover a detailed view of skills needed for 2020 and beyond. We hope the findings help inform your company's talent attraction and retention strategies, and lay the groundwork for the future of work in Greater New Orleans.

On behalf of our entire Bank of America Merrill Lynch team, we thank GNO, Inc. for their leadership, vision, and commitment to strengthening our local community, investing in NextGen talent, and elevating economic progress for the region.

Sincerely,

**Jonathan Matessino**

Senior Vice President of Global Commercial Banking  
*Bank of America Merrill Lynch*



## A word from GNO, Inc.

At GNO, Inc., our staff is working every day to create a region where our children and grandchildren can live and prosper – a region with abundant job opportunities and excellent quality of life, for everyone. We believe the ultimate indication of our success will be the presence of a robust, accessible, and growing middle class in Southeastern Louisiana. As GNO, Inc. prepares its strategic plan for the next 10 years—GNO*future*—we recognize that to achieve this vision we must have a deep understanding of the job growth and wealth-building potential in the region.

Through the Greater New Orleans Jobs Report, GNO, Inc. aims to not only illustrate high-quality careers, but also highlight opportunities for partnership between stakeholders, thus inspiring collaborations that are grounded in the best data available. Indeed, the goal of the Greater New Orleans Jobs Report is to serve as a data-driven resource for partners to coalesce around – and then take action.

GNO, Inc. recognizes the jobs and statistics contained herein are merely a snapshot in time; it is our expectation that these numbers and profiles will shift constantly. We are aware that some occupations will trend upwards with new announcements, investments, and developments. Others will evolve over time with new technologies and industry sectors altering our economic landscape.

However, through the parameters and rigor of the GNO, Inc. methodology, we are confident that the occupations highlighted within demonstrate the breadth and depth of opportunity in our region — illustrating meaningful career opportunities for the next generation of Greater New Orleans residents. It is with this in mind that I ask readers of this report to join GNO, Inc. in our response to these findings: mobilize, respond, prepare, and invest. Now is the time to ensure we have robust workforce pipelines in place linking directly to these careers.

We hope you will join us in our efforts to build the economy and workforce of Greater New Orleans.

I would like to give a special thanks to Bank of America Merrill Lynch for providing the support that made it possible to publish the Greater New Orleans Jobs Report. Through partnerships like this, we are able to work toward creating a thriving region.

Sincerely,

**Michael Hecht**

*President and CEO*

Greater New Orleans, Inc.



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# Introduction

Building on GNO, Inc.’s standing as a go-to resource for regional industry trends, workforce data, and economic analysis, the Greater New Orleans Jobs Report provides a new level of research and data that aims to inform workforce development investments, policies, and programming, as well as talent attraction and retention initiatives, in Greater New Orleans.

The Greater New Orleans Jobs report sets out to answer a question that is central to Greater New Orleans’ economic development growth over the next 10 years: What are the high-wage, high-growth jobs in our region?

Mapping out these core occupational needs over the next decade will provide a crucial tool for regional economic development, K-12, and higher education partners to build career pathways for students to access high-wage, high-demand jobs – and to retain and attract more experienced talent (back) to the region.


What follows in this report is an in-depth analysis of 54 high-wage, high-growth occupations in Greater New Orleans.


## METHODOLOGY

Below are the parameters that were developed to identify high-wage, high-growth occupations for which workforce pipelines should be built:


- \* At least 100 jobs as of 2018
- \* Median hourly salary of at least \$17.98 (identified by the United Way of Southeast Louisiana as the wage needed to live comfortably in Greater New Orleans)
- \* Growth at a rate of at least 10 new jobs from 2008–2018


- \* Sustained growth expected over the next decade, based on recent business development announcements and the current regional business development pipeline, and industry partner feedback
- \* Jobs are related to at least one of GNO, Inc.’s six industry focus sectors:


 Advanced Manufacturing

 Biosciences

 Digital Media

 Energy and Petrochemical

 Water Management

 Transportation and Logistics

Notes: Because this report’s focus is on immediate workforce needs, occupations that required a graduate degree or higher are not included in this report.

The data in this report was extracted from the 2019.1 dataset of the labor market analytics platform Emsi.

# Highlights

The jobs analyzed in this report are essential to the economic vitality of Greater New Orleans. The 77,355 jobs across 54 occupations represent 12% of all the jobs in the region. The significant number of middle-skill jobs, combined with high-wage, high growth opportunities, offers a unique opportunity to build equitable wealth in our region.

## MIDDLE-SKILL JOBS

Of the 77,355 jobs analyzed in this report, 29% are middle-skill jobs – jobs that require some form of education or training beyond a high school diploma, but less than a bachelor's degree. In addition to the more than 22,300 jobs that are middle-skill, an additional 3,021 jobs are basic-skill, while the other 67% of jobs analyzed are high-skill. The low barriers to entry amongst the basic- and middle-skill occupations coupled with the high-wages and growth offer a significant opportunity for economic mobility in Greater New Orleans.

## HIGH-WAGE, HIGH-GROWTH

Since 2008, the occupations analyzed in this report have grown by 21%. This is significant because the region as a whole has only grown by 4.5%, and nationally, jobs have grown by 7.3% over the past decade.

Additionally, these key occupations offer significantly higher wages than the region as a whole. Together, these jobs have median hourly earnings of \$29.90, which equates to \$62,192 annually. The wages of these occupations are \$14 more per hour (\$29,224 more annually) than regional wages as a whole.

## DEMOGRAPHICS

Demographic gaps exist that must be closed to ensure that these opportunities are offered equitably to workers across the region.

**GENDER** - When grouped together, female workers account for 52% of the jobs, while males account for 48%. However, upon review of individual occupations, significant gender gaps exist. Of the 54 occupations examined in this report, all but 11 occupations have a gender disparity of 60:40 or greater. In fact, 10 occupations analyzed have gender disparities of 90:10 or greater.

**RACE** - While the region's workforce is made up of 42% minorities, minorities only account for 32% of the jobs analyzed in this report. The overall racial makeup of the jobs in this report is as follows:

- \* White – 68%
- \* Black or African American – 25%
- \* Hispanic or Latino – 3%
- \* Asian – 2%
- \* Two or More Races – 1%

In fact, of all the occupations analyzed, only Licensed Practical Nurses, Tank Car, Truck, and Ship Loaders, and Clinical Lab Techs, have a higher minority participation rate than in the region's economy as a whole.

**AGE** - The impending retirement boom in these occupations is one of the most immediate needs that must be addressed to ensure these occupations are able to continue their growth trajectory. Nearly 23% of all jobs analyzed are occupied by workers 55 years or older, compared to 22% of all jobs in the region. The occupations with the highest percentage of an ageing workforce include: Administrative Services Managers, Compliance Officers, Construction Managers, Medical and Health Services Managers, and Industrial Machinery Mechanics.

# GNO, Inc. Action Plan

With 12 higher education partners in Greater New Orleans, a statewide focus on high school career readiness via Jump Start pathways, and various private training providers targeting in-demand industry sectors, the region is uniquely positioned to leverage these resources to create robust, equitable workforce pipelines. However, when comparing the outputs of the region's higher education landscape to the 77,355 jobs profiled in this report, there are clear gaps in connecting graduates to the career opportunities:

- \* In 2017, the region had **6,572 entry-level job postings requiring a bachelor's degree** and **3,772 job postings requiring an associate's degree**; whereas regional universities produced **5,729 bachelor's degree completions** and community colleges produced **1,098 associate's degree completions**
- \* Yet, approximately **54%** of alumni from four-year colleges and universities in the region **leave the state**
- \* Many of the programs that feed directly to the region's six key sectors, experience the **highest rates of out-migration: medicine, chemistry, engineering, computer science**

Further, the lack of data tracking graduates from high school career readiness programs—such as Jump Start—into aligned higher education programs or employment, presents a particular challenge in building meaningful connections from training programs to high wage, in-demand careers.

Based on this regional context and findings illustrated herein, GNO, Inc. is focusing on the following core activities in the workforce development sphere. Each of the following efforts is designed to augment these gaps through market awareness and clear communication around changing occupations, in-demand skills, and evolving technologies:

## ALIGNMENT BETWEEN HIGHER EDUCATION AND INDUSTRY

Ensure industry needs are reflected in higher education curriculum and demand-driven, custom-built programming is available at both the university and community college levels.

**GNO, Inc. Signature Initiative: GNOu**

## AWARENESS OF CAREER OPPORTUNITIES IN GREATER NEW ORLEANS

Produce a suite of research and resources that highlight accurate data around the quality and quantity of regional occupations. Promote these efforts through robust outreach and engagement.

**GNO, Inc. Signature Initiatives: GNO Career Guide website, Greater New Orleans Jobs Report, and Career Expos**

## RETENTION OF GRADUATES IN GREATER NEW ORLEANS

Connect job seekers to employment opportunities in the region through direct, one-on-one engagement as well as a resources guiding job seekers to regional opportunities.

**GNO, Inc. Signature Initiatives: Employer Connections, DestinationGNO, and WorkNOLA**

## ATTRACTION TO REGIONAL HIGHER EDUCATION INSTITUTIONS

Position the Greater New Orleans region as a premiere destination for workforce training and education—at both two year schools and four year universities. Undertake a branding and resource development effort to promote the higher education offerings of the region.

**GNO, Inc. Signature Initiative: Development of a website to market the region as an education and research destination**

Though GNO, Inc. is confident that the efforts above will make a positive impact in the workforce landscape, we cannot approach the region's workforce challenges alone or in a silo. Informed interventions and partnerships across Greater New Orleans and the state of Louisiana are essential.

# Business & Management Occupations

Business and management occupations represent a diverse array of occupations that span all key industry sectors. The Greater New Orleans region continues to attract white collar jobs that present an opportunity for economic mobility. A former major banking hub, the New Orleans region has the economic infrastructure in place to build on this important sector.

# General and Operations Managers

Plan, direct, or coordinate the operations of public or private sector organizations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources, but are too diverse and general in nature to be classified in any one functional area of management or administration, such as personnel, purchasing, or administrative services.

2018 Jobs  
9,283

2008–18 % Change  
+29%

Median Hourly Earnings  
\$42.42

Skill Level  
High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

5 years or more

**TOP PROGRAMS**

Business Administration and Management, General

Business/Commerce, General

International Business/Trade/Commerce

**TOP SKILLS**

Reading Comprehension

Social Perceptiveness

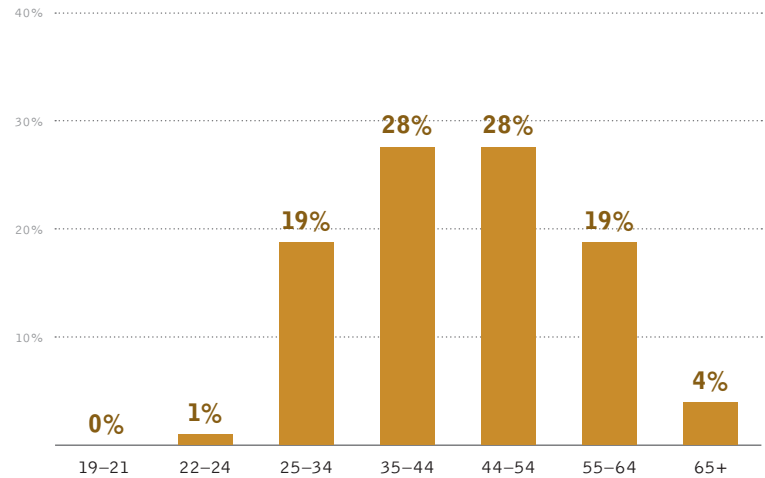
Speaking

Critical Thinking

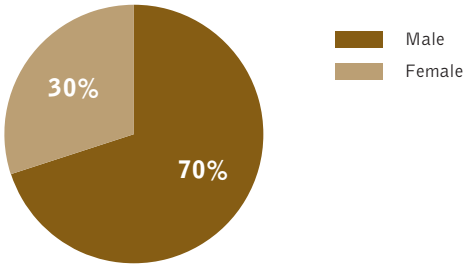
Active Listening

## DEMOGRAPHICS

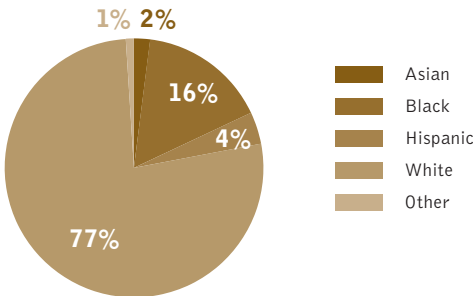
**AGE**



**GENDER**



**RACE**





# Marketing Managers

Plan, direct, or coordinate marketing policies and programs, such as determining the demand for products and services offered by a firm and its competitors, and identify potential customers. Develop pricing strategies with the goal of maximizing the firm’s profits or share of the market while ensuring the firm’s customers are satisfied. Oversee product development or monitor trends that indicate the need for new products and services.

2018 Jobs

361

2008–18 % Change

+18%

Median Hourly Earnings

\$35.22

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

5 years or more

**TOP PROGRAMS**

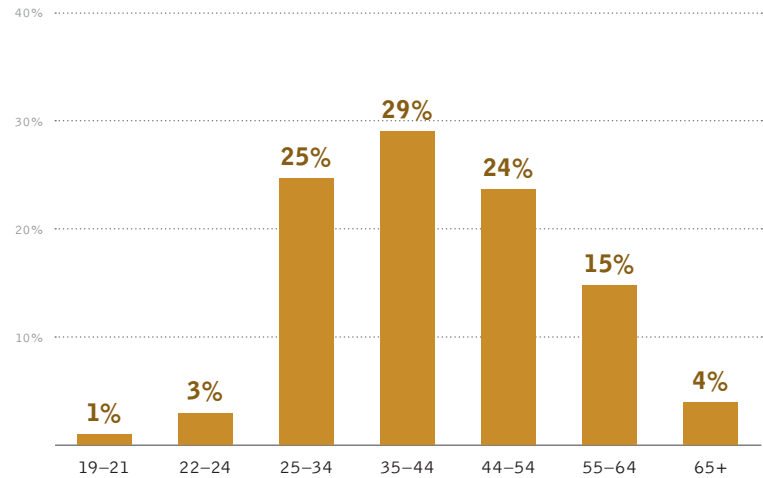
Marketing/Marketing Management, General

**TOP SKILLS**

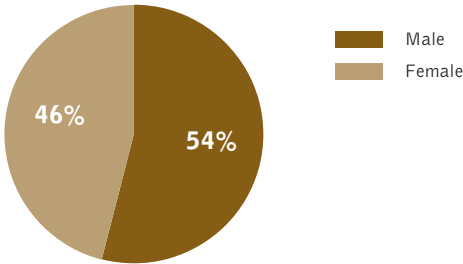
- Persuasion
- Critical Thinking
- Monitoring
- Reading Comprehension
- Active Listening

## DEMOGRAPHICS

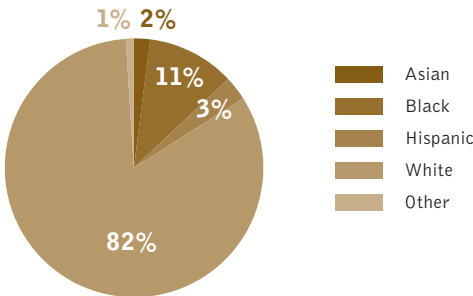
AGE



GENDER



RACE



# Sales Managers

Plan, direct, or coordinate the actual distribution or movement of a product or service to the customer. Coordinate sales distribution by establishing sales territories, quotas, and goals and establish training programs for sales representatives. Analyze sales statistics gathered by staff to determine sales potential and inventory requirements and monitor the preferences of customers.

2018 Jobs  
1,035

2008–18 % Change  
+4%

Median Hourly Earnings  
\$42.79

Skill Level  
High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

Less than 5 years

**TOP PROGRAMS**

Business Administration and Management, General

Business/Commerce, General

Marketing/Marketing Management, General

**TOP SKILLS**

Monitoring

Persuasion

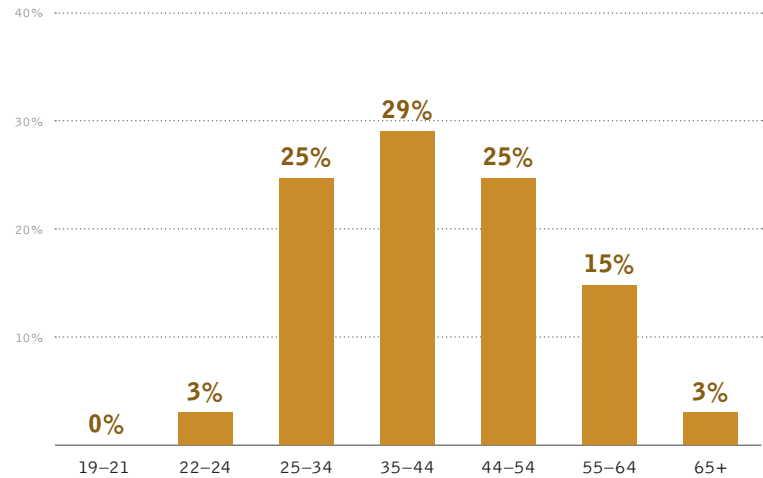
Social Perceptiveness

Speaking

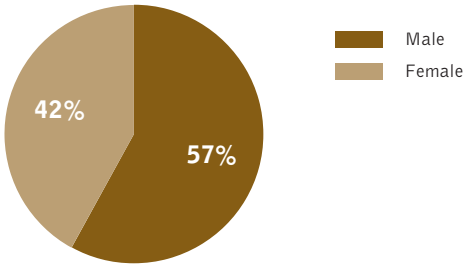
Coordination

## DEMOGRAPHICS

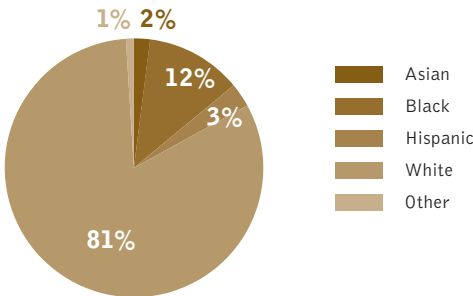
AGE



GENDER



RACE



# Public Relations and Fundraising Managers

Plan, direct, or coordinate activities designed to create or maintain a favorable public image or raise issue awareness for their organization or client; or if engaged in fundraising, plan, direct, or coordinate activities to solicit and maintain funds for special projects or nonprofit organizations.

2018 Jobs

158

2008–18 % Change

+23%

Median Hourly Earnings

\$38.47

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

5 years or more

**TOP PROGRAMS**

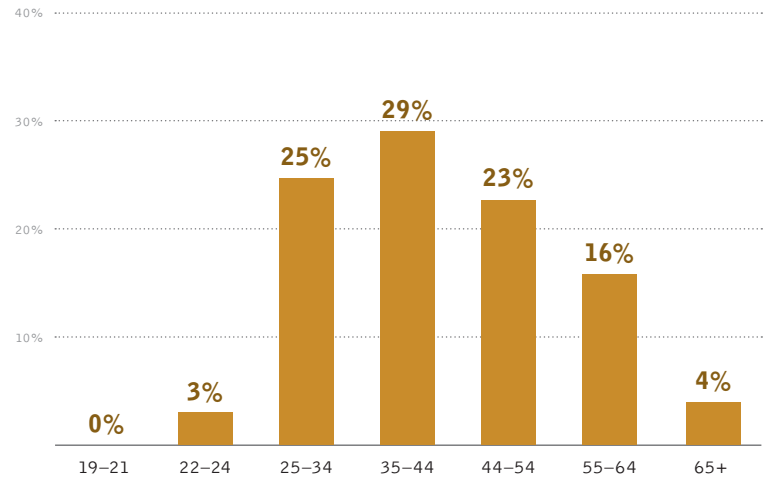
Public Relations, Advertising, and Applied Communication, Other

**TOP SKILLS**

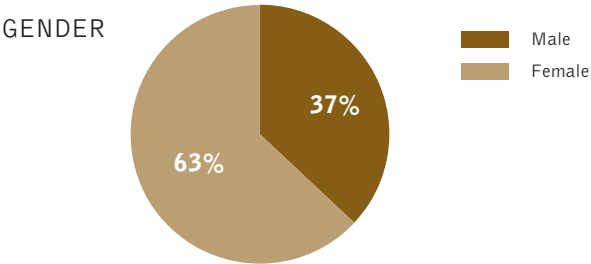
Speaking  
Writing  
Social Perceptiveness  
Reading Comprehension  
Active Listening

## DEMOGRAPHICS

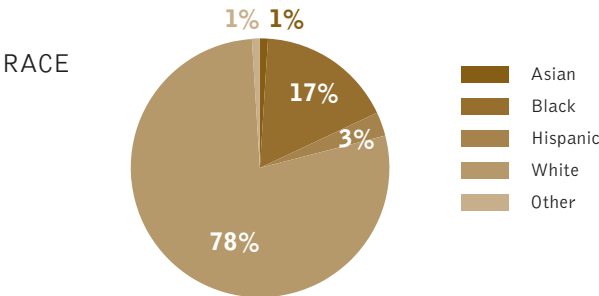
AGE



GENDER



RACE



# Administrative Services Managers

Plan, direct, or coordinate one or more administrative services of an organization, such as records and information management, mail distribution, facilities planning and maintenance, custodial operations, and other office support services. Tasks may include setting goals and deadlines for department or analysis of internal processes.

2018 Jobs

974

2008–18 % Change

+7%

Median Hourly Earnings

\$37.99

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

Less than 5 years

**TOP PROGRAMS**

Business Administration and Management, General

Business/Commerce, General

Public Administration

**TOP SKILLS**

Reading Comprehension

Time Management

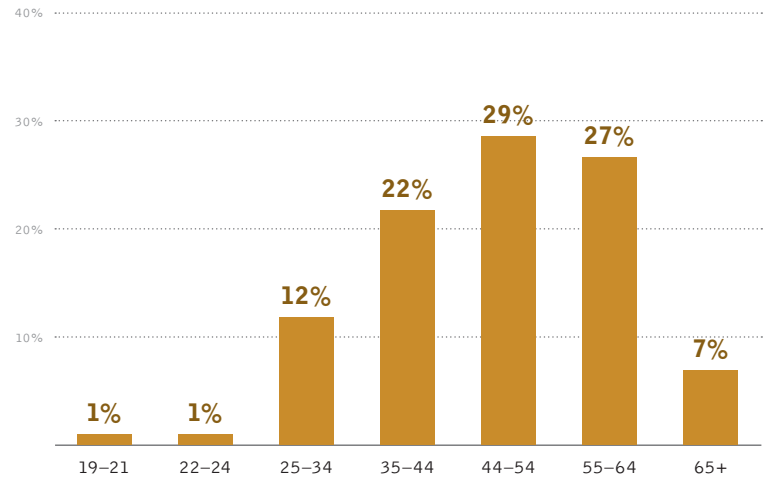
Active Listening

Speaking

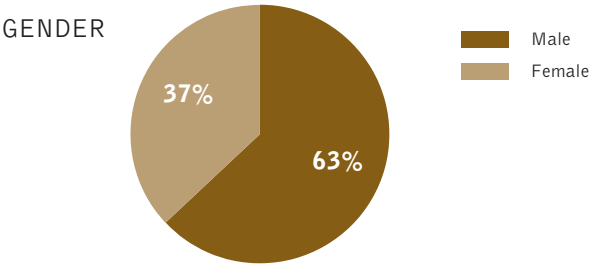
Critical Thinking

## DEMOGRAPHICS

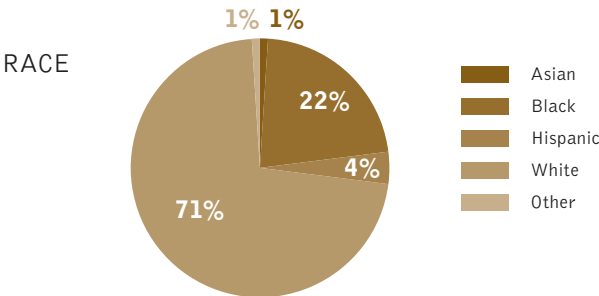
AGE



GENDER



RACE



# Financial Managers

Plan, direct, or coordinate accounting, investing, banking, insurance, securities, and other financial activities of a branch, office, or department of an establishment. Tasks may include the supervision of employees performing financial reporting, accounting, billing, collections, payroll, and budgeting duties, or the development of internal control policies, guidelines, and procedures for activities such as budget administration.

2018 Jobs  
1,768

2008–18 % Change  
+12%

Median Hourly Earnings  
\$43.59

Skill Level  
High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

5 years or more

**TOP PROGRAMS**

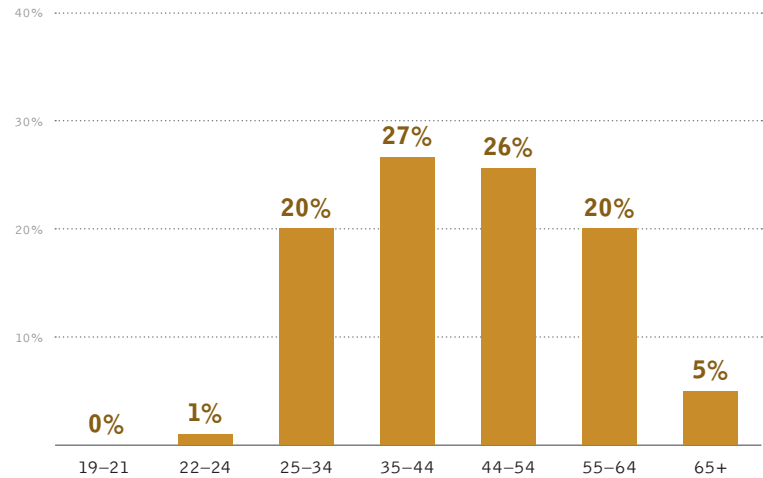
Finance, General

**TOP SKILLS**

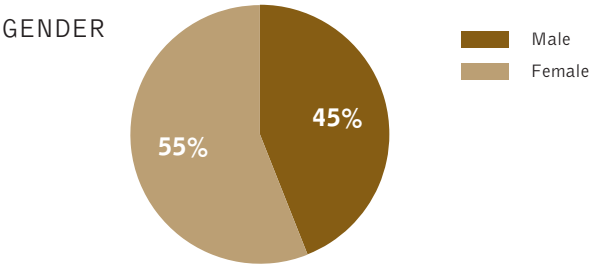
- Monitoring
- Critical Thinking
- Writing
- Management of Personnel Resources
- Judgment and Decision Making

## DEMOGRAPHICS

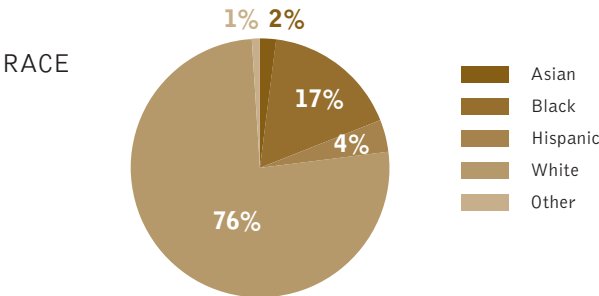
AGE



GENDER



RACE





# Human Resources Manager

Plan, direct, or coordinate human resources activities and staff of an organization. Serve as a link between management and employees by handling questions, interpreting and administering contracts, and helping resolve work-related problems. Advise managers on organizational policy matters, such as equal employment opportunity and sexual harassment, and recommend needed changes.

2018 Jobs

659

2008–18 % Change

+86%

Median Hourly Earnings

\$37.41

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

5 years or more

**TOP PROGRAMS**

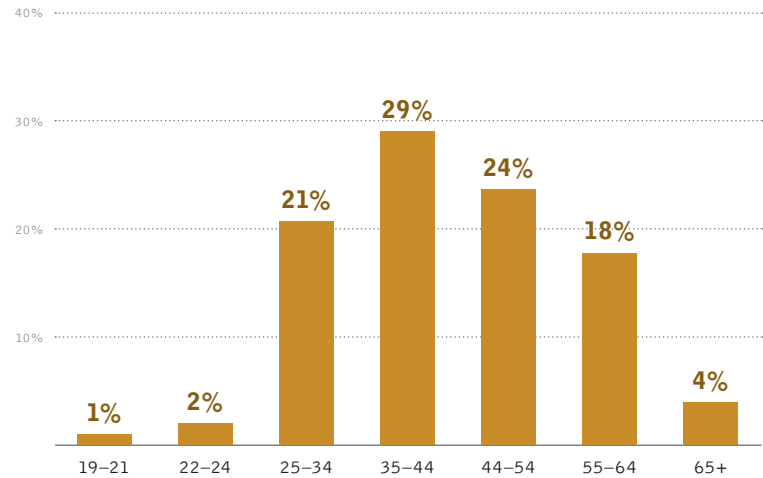
Human Resources  
Management/Personnel  
Administration, General

**TOP SKILLS**

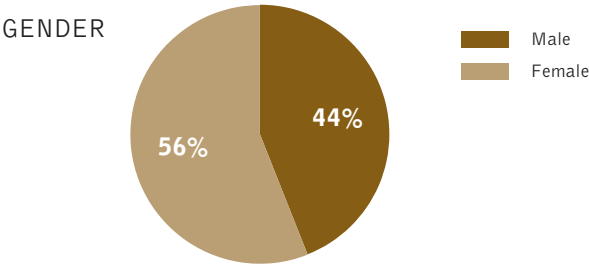
Management of Personell  
Resources  
Monitoring  
Critical thinking  
Time Management  
Reading Comprehension

## DEMOGRAPHICS

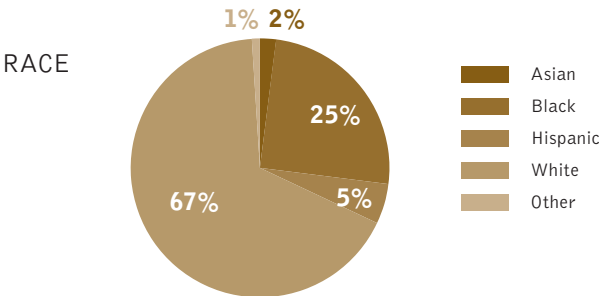
AGE



GENDER



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# Training and Development Managers

Plan, develop, and provide training and staff development programs, using knowledge of the effectiveness of methods such as classroom training, demonstrations, on-the-job training, meetings, conferences, and workshops. Key tasks include the analysis of training needs to develop new training programs or modify and improve existing programs.

2018 Jobs

226

2008–18 % Change

+63%

Median Hourly Earnings

\$36.66

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

5 years or more

**TOP PROGRAMS**

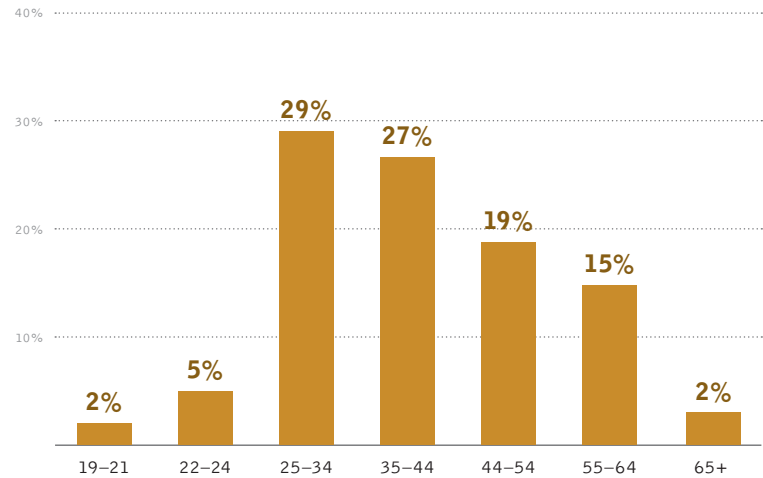
Human Resources  
Management/Personnel  
Administration, General

**TOP SKILLS**

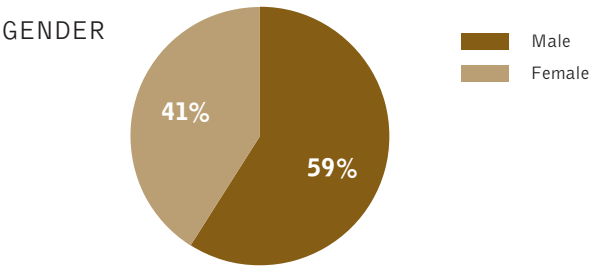
Learning Strategies  
Instructing  
Speaking  
Monitoring  
Active Learning

## DEMOGRAPHICS

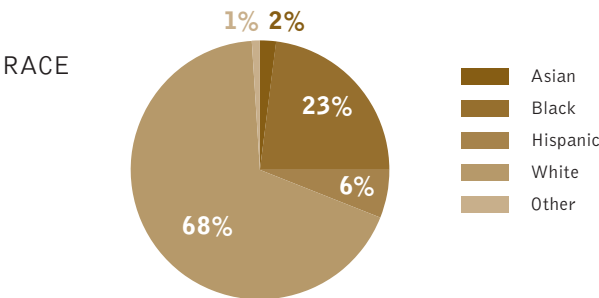
AGE



GENDER



RACE



# Compliance Officers

Examine, evaluate, and investigate eligibility for or conformity with the laws and regulations which govern contract compliance with licenses and permits, and perform other compliance and enforcement inspection and analysis activities not classified elsewhere. Key tasks include the evaluation applications, records, or documents to gather information about eligibility or liability issues.

2018 Jobs  
1,517

2008–18 % Change  
+34%

Median Hourly Earnings  
\$29.57

Skill Level  
High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

Moderate-term

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

None

**TOP SKILLS**

Speaking

Active Listening

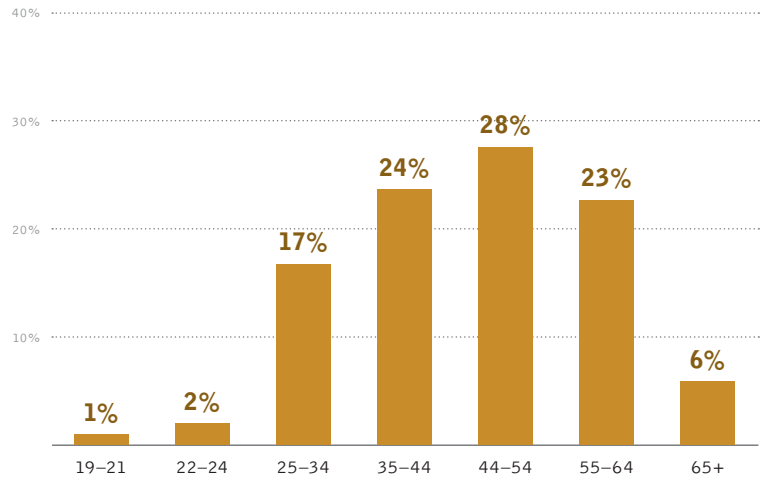
Reading Comprehension

Critical Thinking

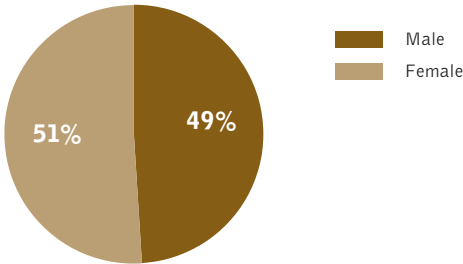
Writing

## DEMOGRAPHICS

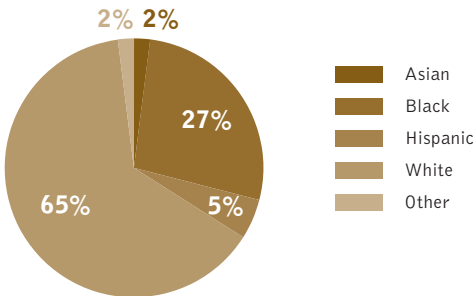
**AGE**



**GENDER**



**RACE**



# Human Resources Specialists

Perform activities in the human resource area. Includes employment specialists who screen, recruit, interview, and place workers. Prepare or maintain employment records related to events, such as hiring, termination, leaves, transfers, or promotions, using human resources management system software. Address employee relations issues, such as harassment allegations, work complaints, or other employee concerns.

2018 Jobs  
1,617

2008–18 % Change  
+35%

Median Hourly Earnings  
\$25.13

Skill Level  
High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

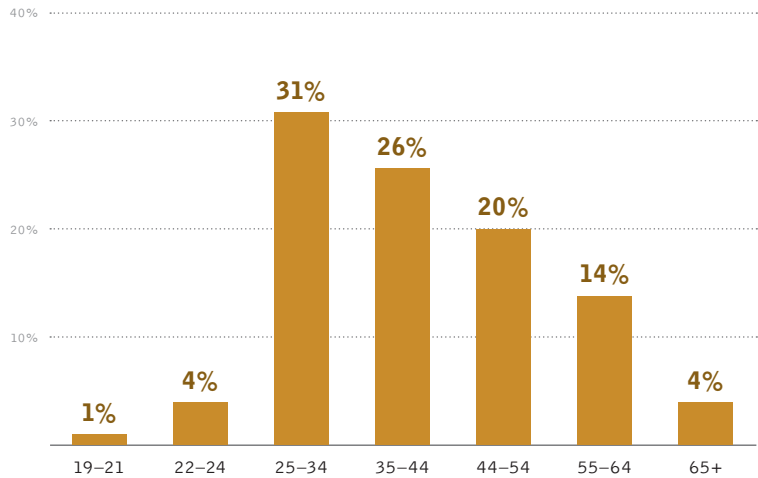
Human Resources  
Management/Personnel  
Administration, General

**TOP SKILLS**

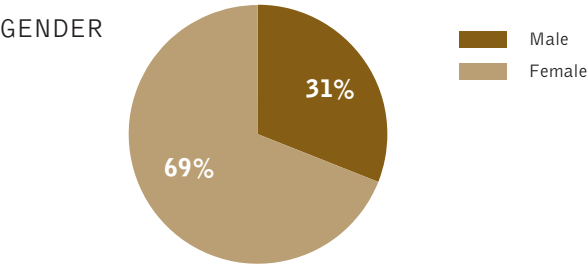
Active Listening  
Reading Comprehension  
Speaking  
Critical Thinking  
Social Preceptiveness

## DEMOGRAPHICS

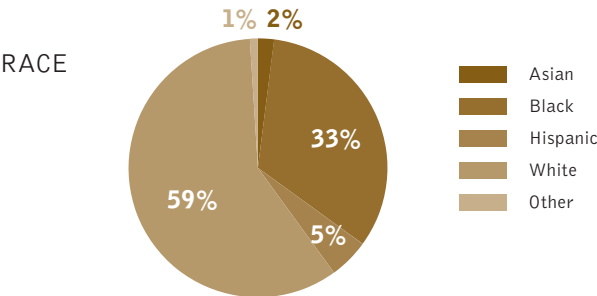
AGE



GENDER



RACE



# Logisticians

Analyze and coordinate the logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources. Develop an understanding of customers’ needs and take actions to ensure that such needs are met.

2018 Jobs

437

2008–18 % Change

+25%

Median Hourly Earnings

\$30.46

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

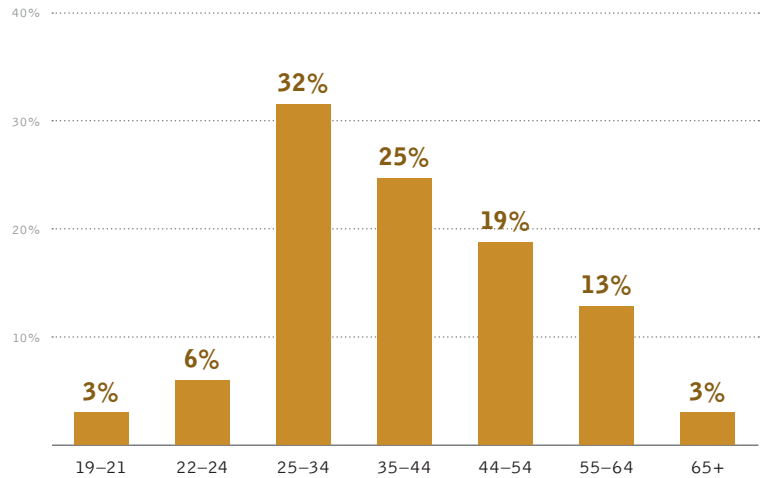
Logistics, Materials, and Supply Chain Management

**TOP SKILLS**

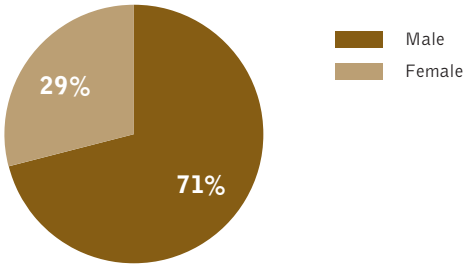
- Monitoring
- Coordination
- Active Listening
- Reading Comprehension
- Critical Thinking

## DEMOGRAPHICS

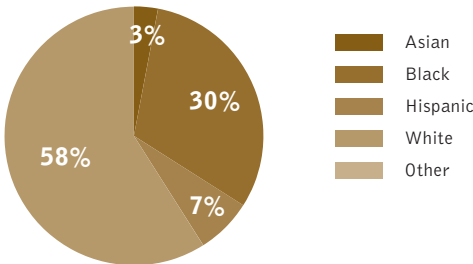
AGE



GENDER



RACE





# Management Analysts

Conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively. Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources is needed.

2018 Jobs  
1,327

2008–18 % Change

+11%

Median Hourly Earnings

\$36.84

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

Less than 5 years

**TOP PROGRAMS**

Business Administration and Management, General

Business/Commerce, General

Organizational Leadership

**TOP SKILLS**

Active Listening

Judgement and Decision Making

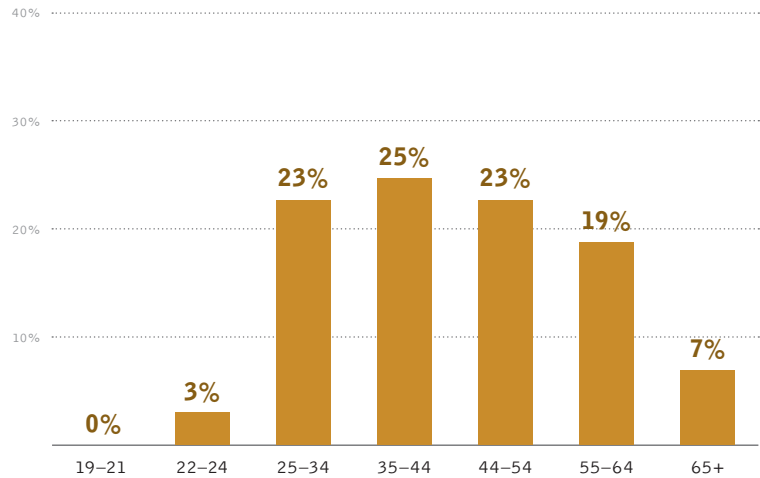
Operation Analysis

Critical Thinking

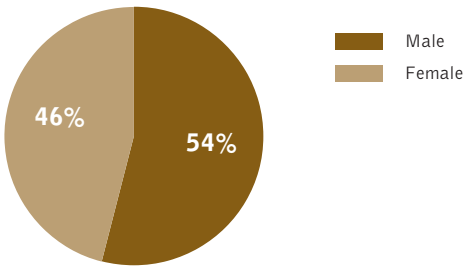
Reading Comprehension

## DEMOGRAPHICS

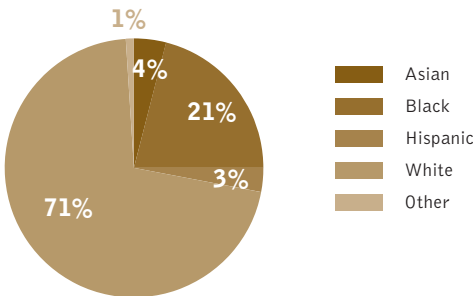
AGE



GENDER



RACE



# Fundraisers

Organize activities to raise funds or otherwise solicit and gather monetary donations or other gifts for an organization by identifying and building relationships with potential donors. May design and produce promotional materials needed to secure commitments of participation or donation from individuals or corporate donors.

2018 Jobs

397

2008–18 % Change

+60%

Median Hourly Earnings

\$20.49

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

None

**TOP SKILLS**

Speaking

Persuasion

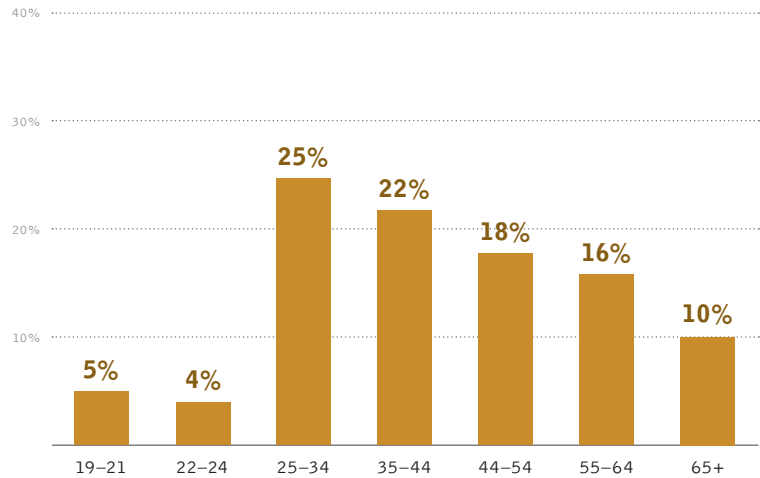
Coordination

Reading Comprehension

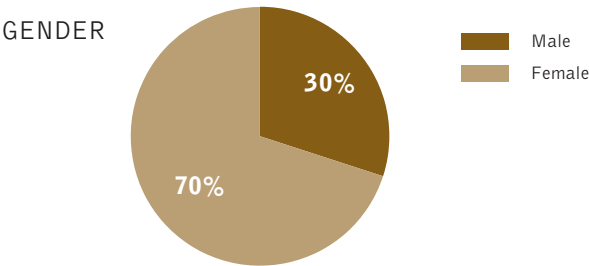
Writing

## DEMOGRAPHICS

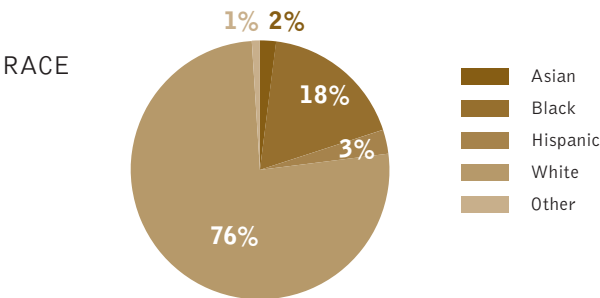
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**GENDER**



**RACE**



# Market Research Analysts and Marketing Specialists

Research market conditions in local, regional, or national areas, or gather information to determine potential sales of a product or service, or create a marketing campaign. May gather information on competitors, prices, sales, and methods of marketing and distribution. May also prepare reports of findings, illustrating data graphically and translating complex findings into written text.

2018 Jobs  
1,130

2008–18 % Change  
+114%

Median Hourly Earnings  
\$22.95

Skill Level  
High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

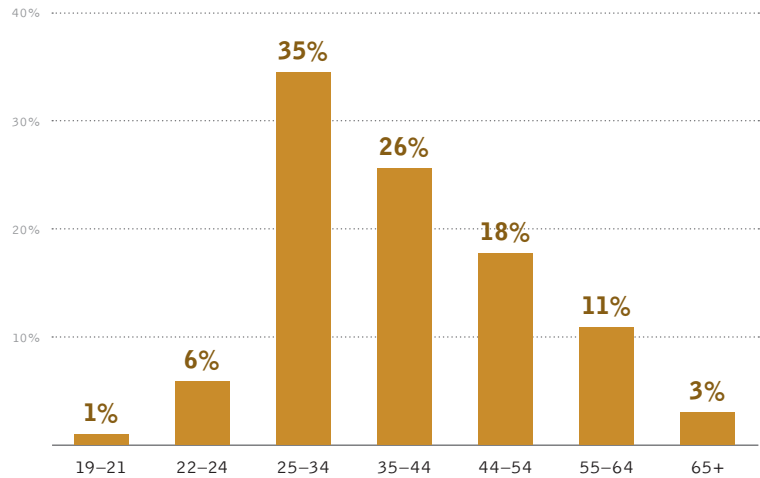
Marketing/Marketing Management, General

**TOP SKILLS**

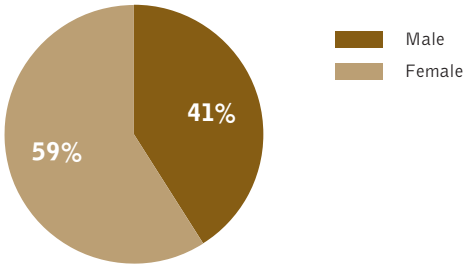
Reading Comprehension  
Judgment and Decision Making  
Writing  
Active Learning  
Speaking

## DEMOGRAPHICS

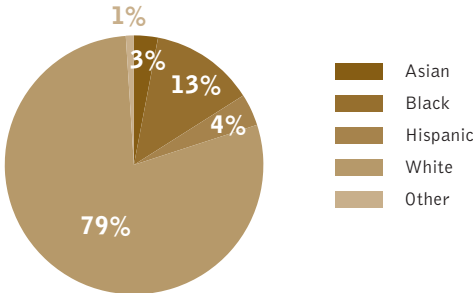
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**GENDER**



**RACE**



# Accountants and Auditors

Examine, analyze, and interpret accounting records to prepare financial statements, give advice, or audit and evaluate statements prepared by others. Install or advise on systems of recording costs or other financial and budgetary data. Knowledge of accounting, analytical, compliance, and financial analysis software may be needed.

2018 Jobs  
3,729

2008–18 % Change  
+5%

Median Hourly Earnings  
\$30.97

Skill Level  
High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Accounting

Taxation

**TOP SKILLS**

Mathematics

Active Listening

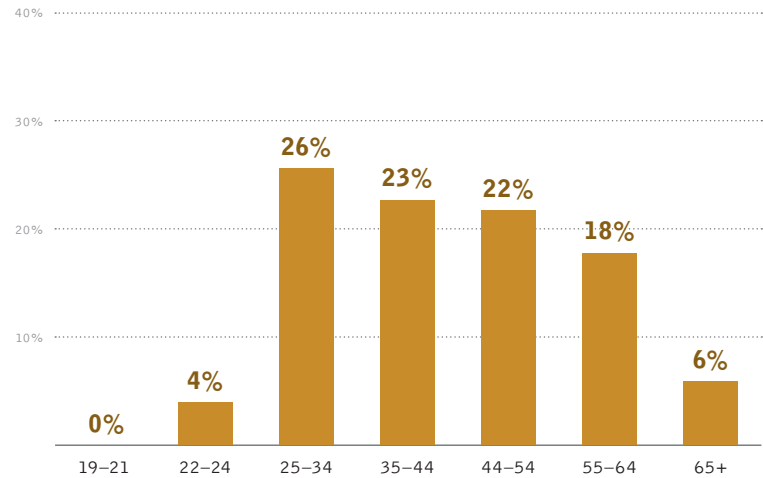
Reading Comprehension

Critical Thinking

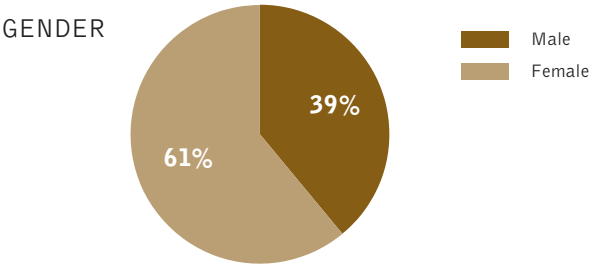
Speaking

## DEMOGRAPHICS

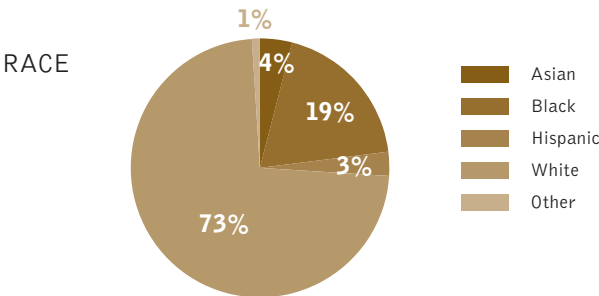
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GENDER



RACE



# Financial Analysts

Conduct quantitative analyses of information affecting investment programs of public or private institutions. May be responsible for informing investment decisions by analyzing financial information to forecast business, industry, or economic conditions or recommending investments and investment timing to companies, investment firm staff, or the public.

2018 Jobs

461

2008–18 % Change

+9%

Median Hourly Earnings

\$33.99

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Finance, General

Financial Mathematics

**TOP SKILLS**

Writing

Mathematics

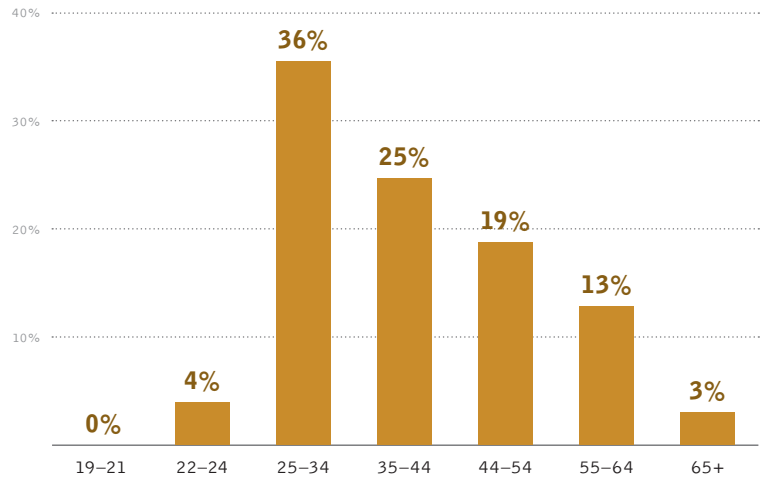
Reading Comprehension

Critical Thinking

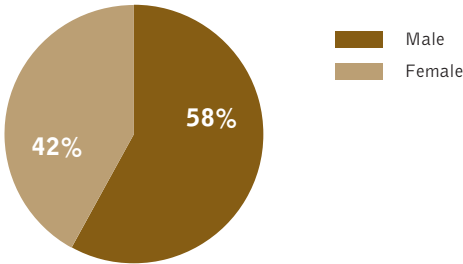
Active Learning

## DEMOGRAPHICS

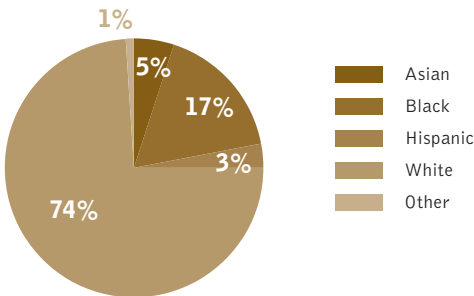
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GENDER



RACE





# Operations Research Analysts

Formulate and apply mathematical modeling and other optimizing methods to develop and interpret information that assists management with decision making, policy formulation, or other managerial functions. May collect and analyze data and develop decision support software, service, or products. May develop and supply optimal time, cost, or logistics networks for program evaluation, review, or implementation.

2018 Jobs

357

2008–18 % Change

+63%

Median Hourly Earnings

\$26.90

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Management Science

**TOP SKILLS**

Mathematics

Systems Evaluation

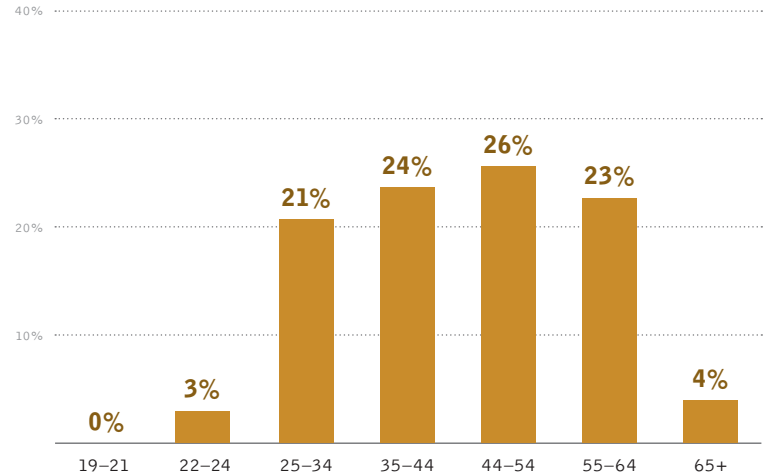
Critical Thinking

Operations Analysis

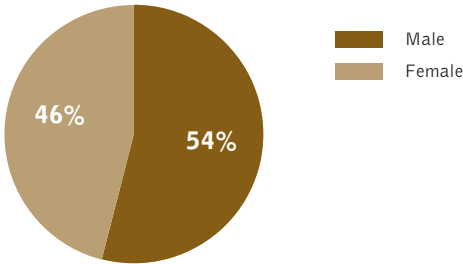
Reading Comprehension

## DEMOGRAPHICS

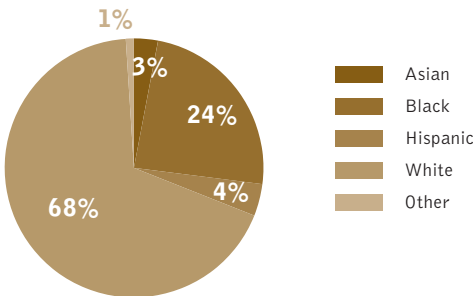
AGE



GENDER



RACE



```

95  <div class="container">
96    <div class="carousel-caption">
97      <h1>One more for good measure.</h1>
98      <p>Quis justo odio, dapibus ac facilisis in, egestas eget quam. Donec id elit non mi porta ante dapibus.
99    </p>
100  </div>
101  </div>
102  <a class="left carousel-control" href="#myCarousel" role="button" data-slide="prev">
103    <span class="glyphicon glyphicon-chevron-left" aria-hidden="true"></span>
104    <span class="sr-only">Previous</span>
105  </a>
106  <a class="right carousel-control" href="#myCarousel" role="button" data-slide="next">
107    <span class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span>
108    <span class="sr-only">Next</span>
109  </a>
110 </div><!-- /.carousel -->

```

```

111 <!--Featured Content Section-->

```

```

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113   <div class="row">
114     <div class="col-md-4"></div>
115     <div class="col-md-4"><h2>FEATURED CONTENT</h2></div>

```

# Computer Occupations

The Greater New Orleans region is a burgeoning center for innovation and excellence across digital media and technology, from advertising and graphic design to software development. The companies in this sector range from startups, which have increased in quantity over the past decade, to multi-billion dollar corporations that have been recruited into the market.

# Web Developers

Design, create, and modify Web sites. Analyze user needs to implement website content, graphics, performance, and capacity. May integrate websites with other computer applications. May convert written, graphic, audio, and video components to compatible Web formats by using software designed to facilitate the creation of Web and multimedia content.

2018 Jobs

256

2008–18 % Change

+41%

Median Hourly Earnings

\$27.84

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Associate's degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Computer Systems Networking and Telecommunications

Computer Science

Network and System Administration/Administrator

**TOP SKILLS**

Programming

Reading Comprehension

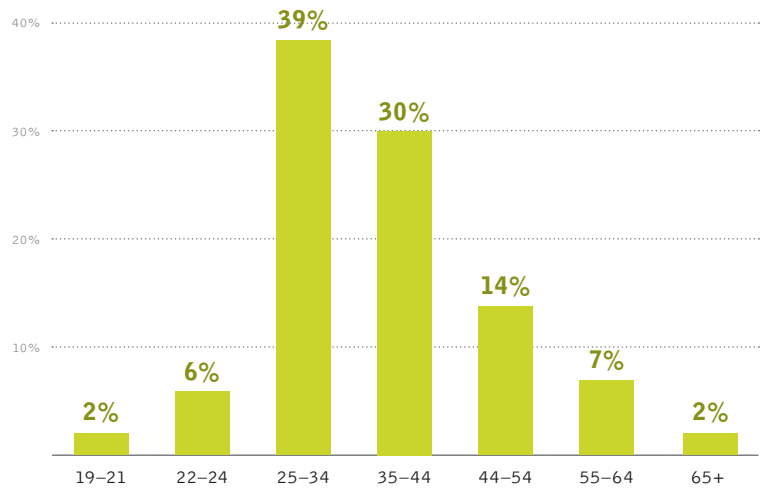
Operation Analysis

Critical Thinking

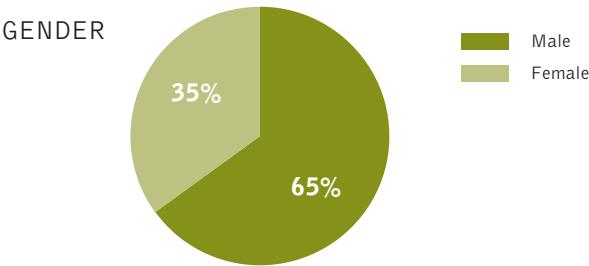
Active Learning

## DEMOGRAPHICS

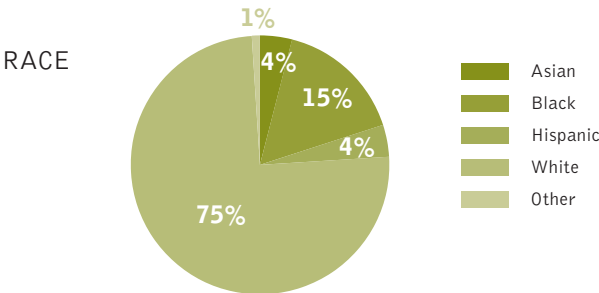
**AGE**



**GENDER**



**RACE**



# Computer User Support Specialists

Provide technical assistance to computer users. Answer questions or resolve computer problems for clients in person, or via telephone or electronically. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems. May set up equipment for employee use, performing or ensuring proper installation of cables, operating systems, or appropriate software.

2018 Jobs

1,673

2008–18 % Change

+34%

Median Hourly Earnings

\$19.83

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Some college, no degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Computer Systems Networking and Telecommunications

Computer Science

Network and System Administration/Administrator

**TOP SKILLS**

Critical Thinking

Active Listening

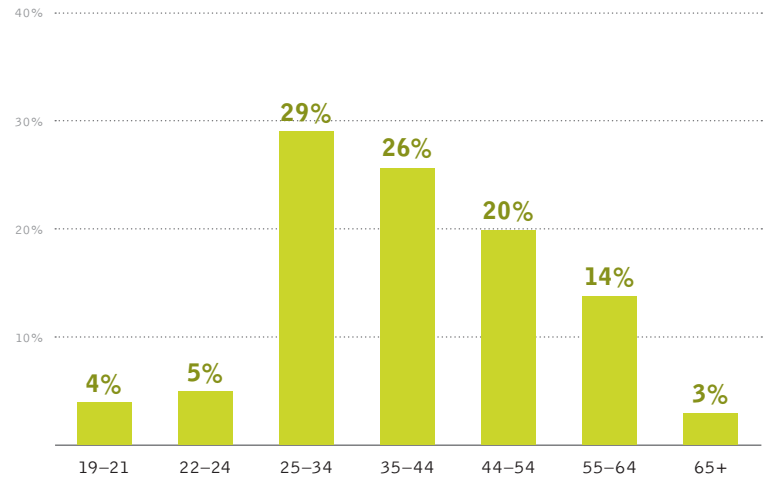
Reading Comprehension

Speaking

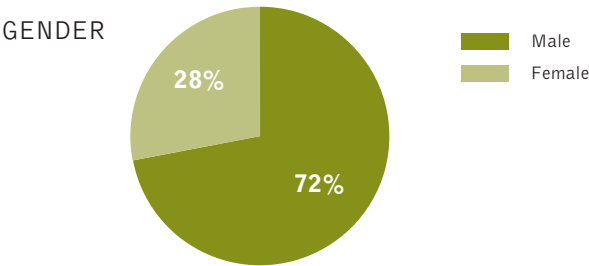
Instructing

## DEMOGRAPHICS

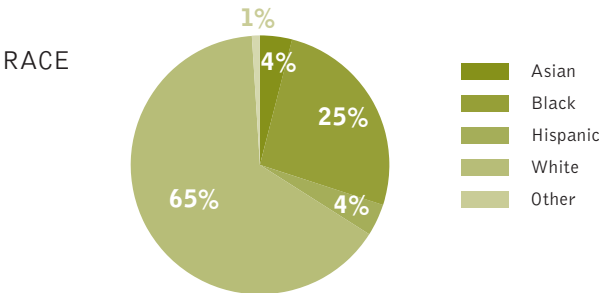
**AGE**



**GENDER**



**RACE**



# Computer Network Support Specialists

Analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Perform network maintenance to ensure networks operate correctly with minimal interruption, and analyze and report computer network security breaches or attempted breaches.

2018 Jobs

499

2008–18 % Change

+27%

Median Hourly Earnings

\$25.13

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Associate's degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Computer Systems Networking and Telecommunications

Computer Science

Network and System Administration/Administrator

**TOP SKILLS**

Reading Comprehension

Critical Thinking

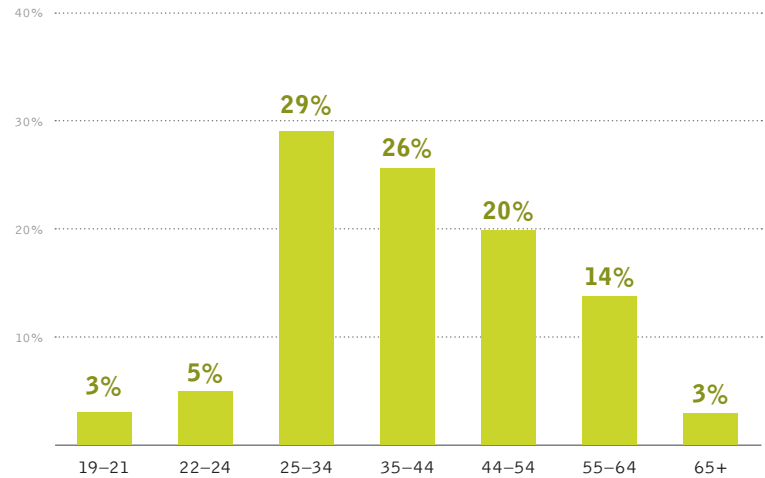
Monitoring

Active Listening

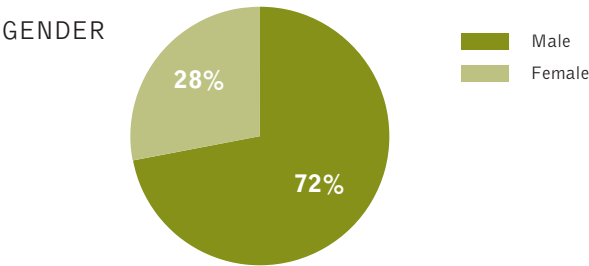
Writing

## DEMOGRAPHICS

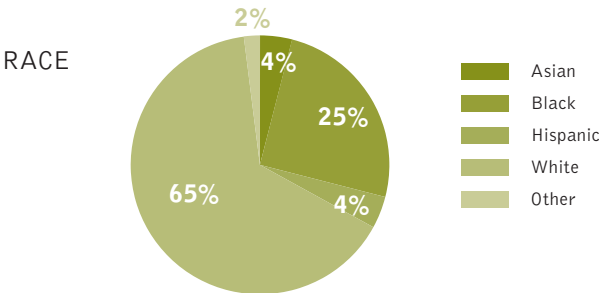
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**GENDER**



**RACE**



# Information Security Analysts

Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information by encrypting data transmissions, risks assessments, and the review of current reports of computer viruses. May ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure. May respond to computer security breaches and viruses.

2018 Jobs

243

2008–18 % Change

+98%

Median Hourly Earnings

\$35.05

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

Less than 5 years

**TOP PROGRAMS**

Computer Systems Networking and Telecommunications

Computer Science

Network and System Administration/Administrator

**TOP SKILLS**

Critical Thinking

Reading Comprehension

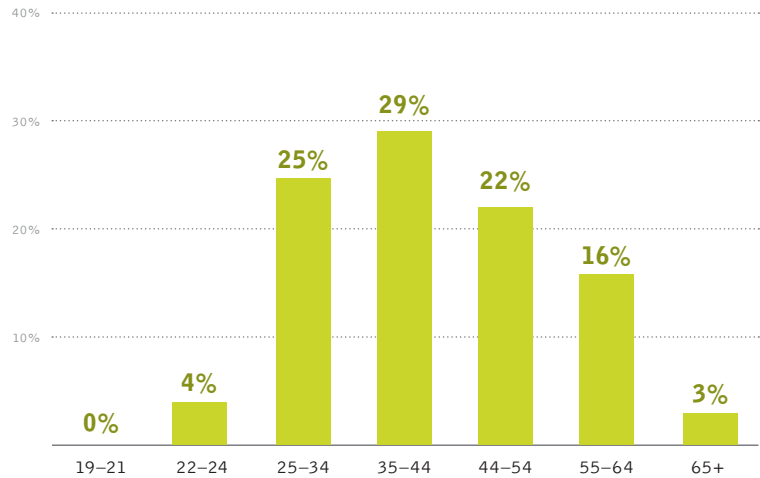
Monitoring

Active Listening

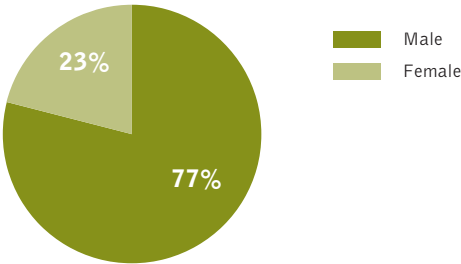
Active Learning

## DEMOGRAPHICS

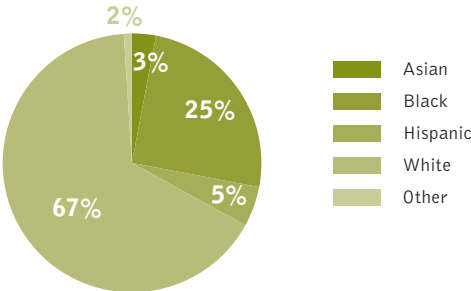
**AGE**



**GENDER**



**RACE**



# Software Developers (Applications)

Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. May analyze and design databases within an application area, working individually or coordinating database development as part of a team. May supervise computer programmers.

2018 Jobs

797

2008–18 % Change

+38%

Median Hourly Earnings

\$36.40

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor's degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Computer Science

Computer Programming,  
Specific Applications

Information Technology

**TOP SKILLS**

Programming

Systems Evaluation

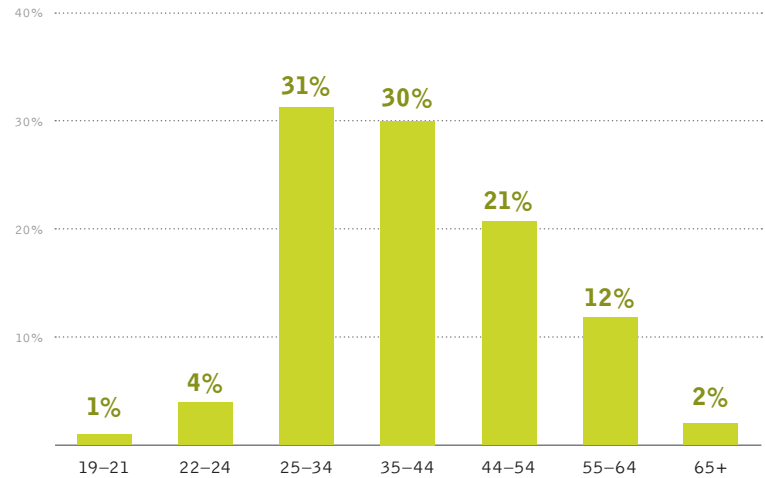
Systems Analysts

Troubleshooting

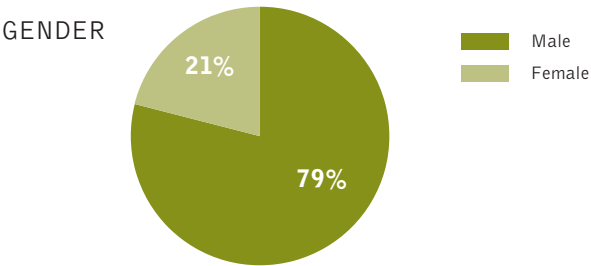
Judgement and Decision  
Making

## DEMOGRAPHICS

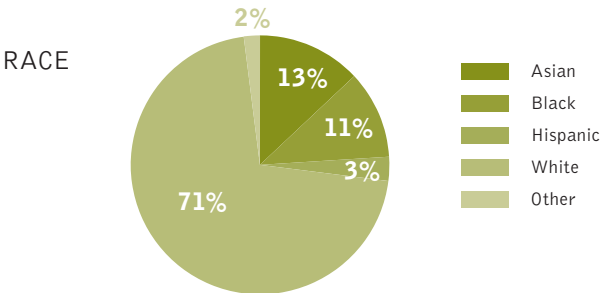
**AGE**



**GENDER**



**RACE**



# Network and Computer Systems Administrator

Install, configure, and support an organization’s local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Monitor network to ensure network availability to all system users and may perform necessary maintenance to support network availability. May monitor and test website performance. May assist in network modeling, analysis, planning, and coordination between network and data communications hardware and software.

2018 Jobs  
1,205

2008–18 % Change  
+14%

Median Hourly Earnings  
\$29.81

Skill Level  
High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

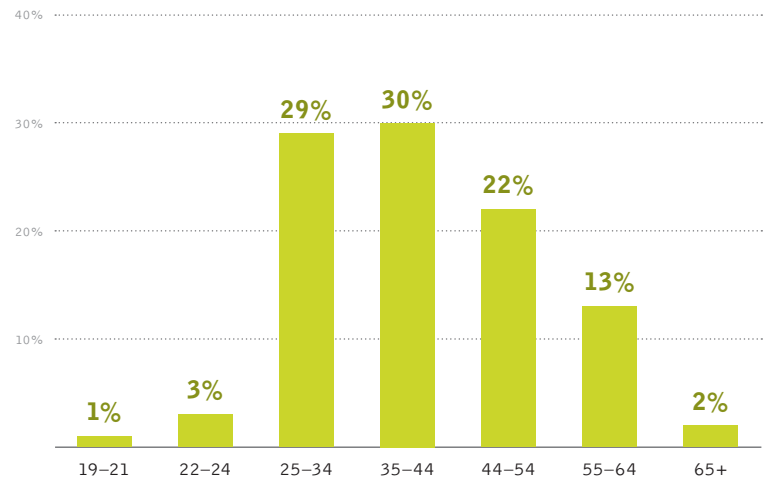
Network and System  
Administration/Administrator  
Computer and Information  
Sciences, General  
Computer and Information  
Systems Security/Information  
Assurance

**TOP SKILLS**

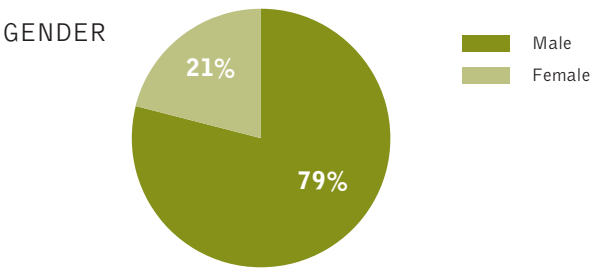
Systems Evaluation  
Troubleshooting  
Complex Problem Solving  
Reading Comprehension  
Speaking

## DEMOGRAPHICS

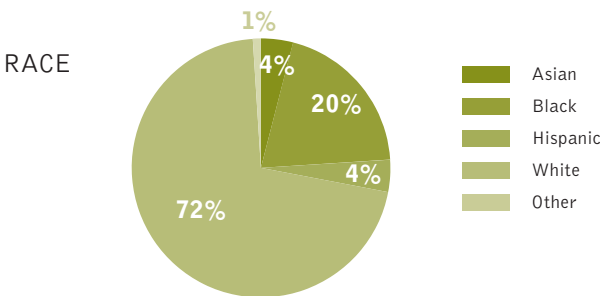
**AGE**



**GENDER**



**RACE**





# Computer Network Architects

Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Perform network modeling, analysis, and planning. May also design network and computer security measures. May research and recommend network and data communications hardware and software.

2018 Jobs

199

2008–18 % Change

+19%

Median Hourly Earnings

\$26.30

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

5 years or more

**TOP PROGRAMS**

Computer Systems Networking and Telecommunications

Computer Science

Network and System

Administration/Administrator

**TOP SKILLS**

Reading Comprehension

Critical Thinking

Judgment and Decision Making

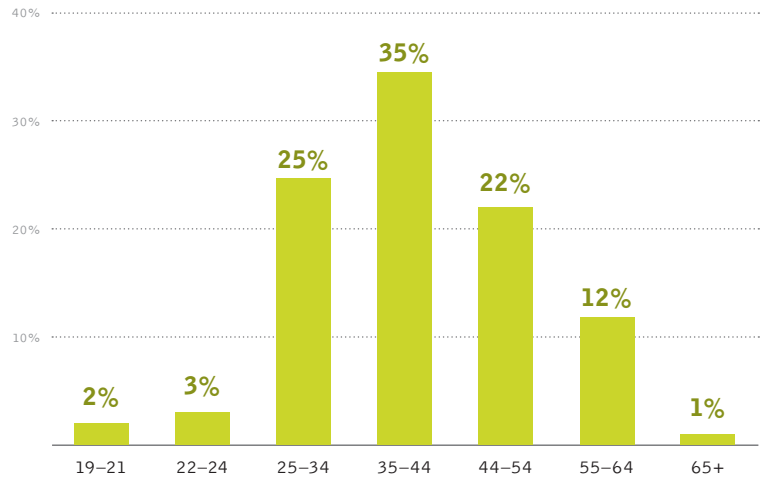
Speaking

Complex Problem Solving

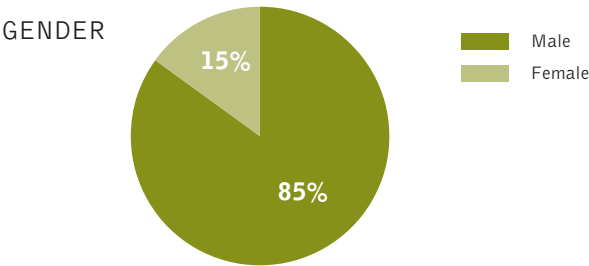
Speaking

## DEMOGRAPHICS

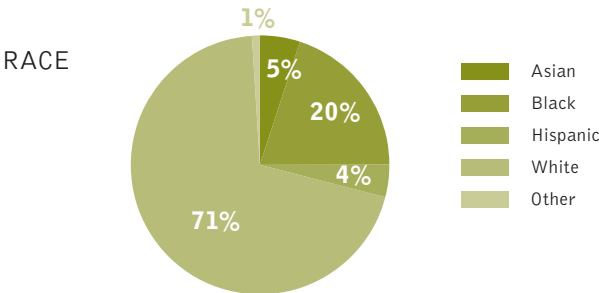
**AGE**



**GENDER**



**RACE**



# Computer and Information Systems Managers

Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming. Specific tasks may include providing users with technical support for computer problems, reviewing project plans to plan and coordinate project activity, or assigning and review the work of systems analysts.

2018 Jobs

673

2008–18 % Change

+18%

Median Hourly Earnings

\$53.56

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

5 years or more

**TOP PROGRAMS**

Computer Science

Network and System  
Administration/Administrator

Information Science/Studies

**TOP SKILLS**

Monitoring

Reading Comprehension

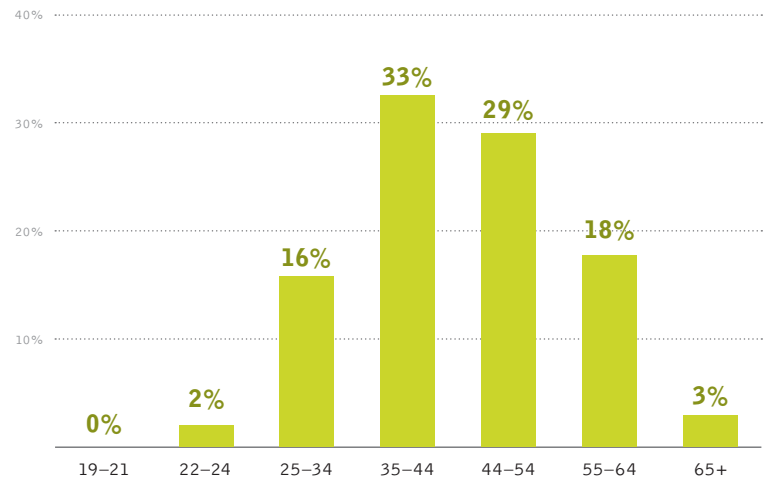
Active Listening

Critical Thinking

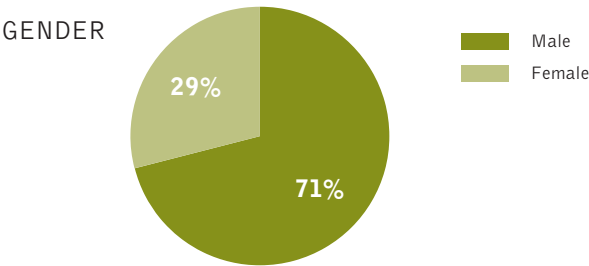
Writing

## DEMOGRAPHICS

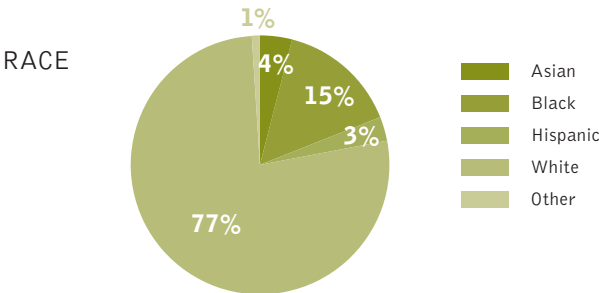
**AGE**



**GENDER**



**RACE**



# Graphic Designers

Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects. Knowledge of computer aided design, desktop publishing, graphics or photo imaging, and video creation and editing software may be needed.

2018 Jobs

754

2008–18 % Change

+16%

Median Hourly Earnings

\$21.14

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Web Page, Digital/Multimedia and Information Resources Design

Graphic Design

Design and Visual Communications, General

**TOP SKILLS**

Reading Comprehension

Critical Thinking

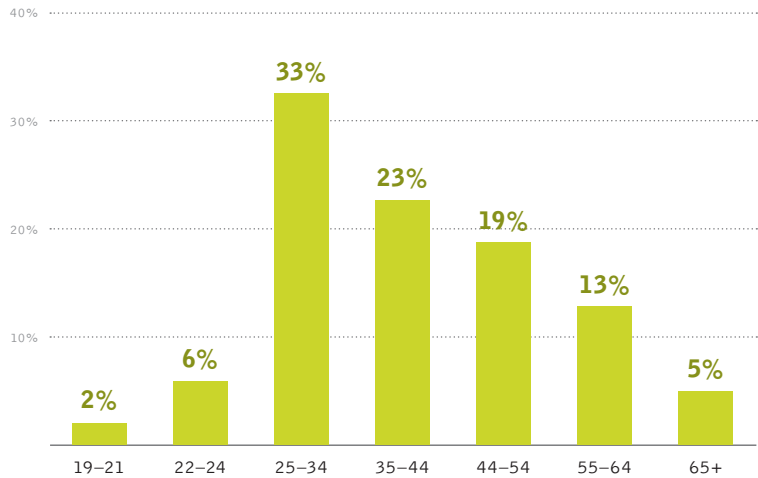
Speaking

Active Listening

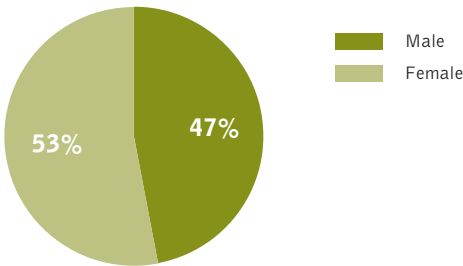
Operations Analysis

## DEMOGRAPHICS

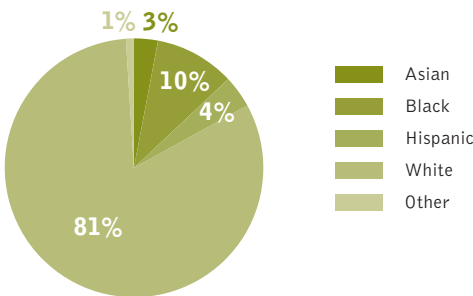
AGE

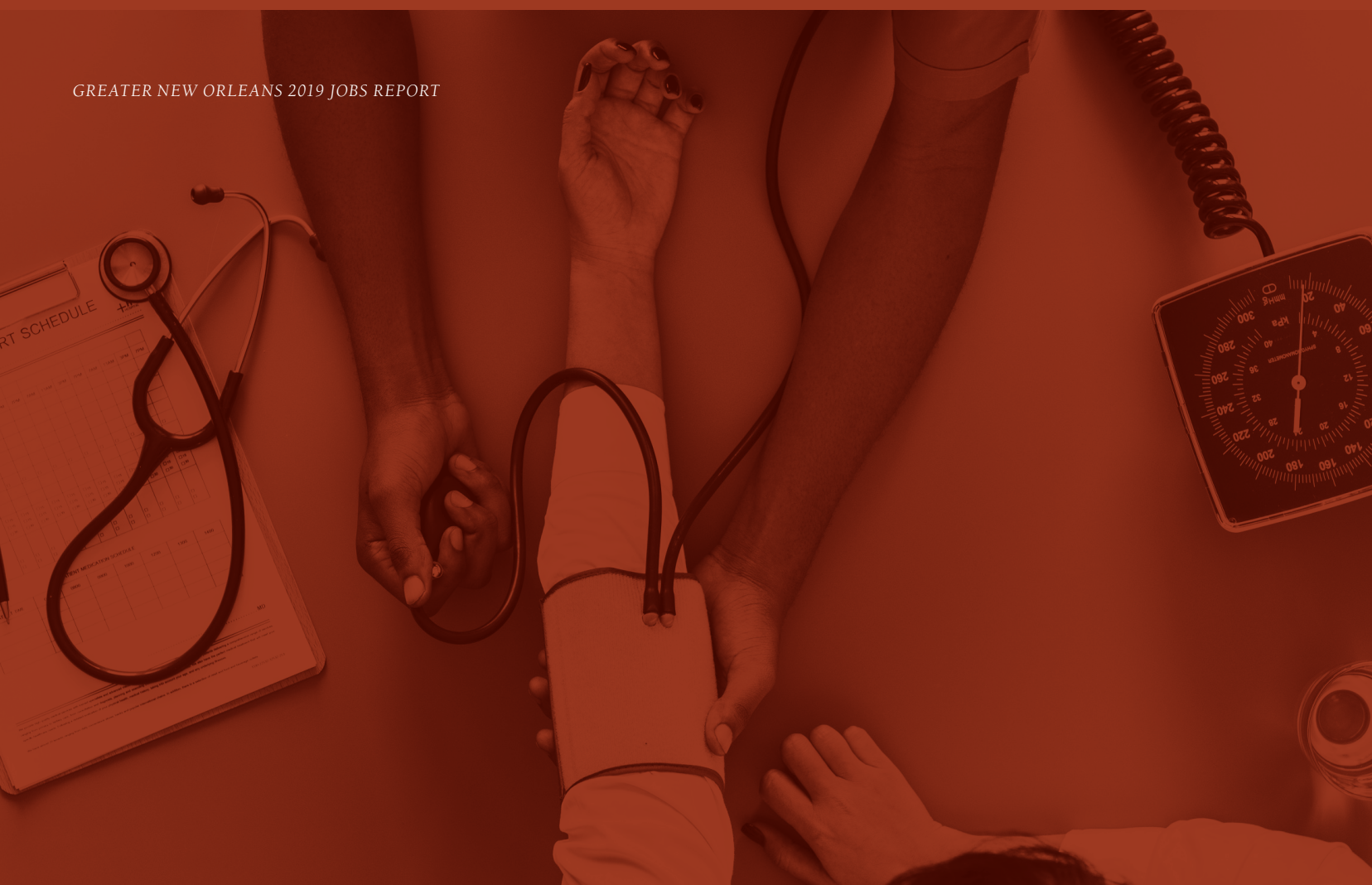


GENDER



RACE





# Healthcare Occupations

The Greater New Orleans region is not only host to a robust pool of health services providers and employers, but also an emerging hub of biosciences research. Home to a booming Bio District in downtown New Orleans, multiple colleges and universities offer training for a range of health-care related programs at facilities across the region. Through the array of programs supporting the healthcare sector, a network of career pathways pipelining candidates from middle-skill to high-skill positions in healthcare exists.

# Radiation Therapists

Provide radiation therapy to patients as prescribed by a radiologist according to established practices and standards. Duties may include reviewing prescription and diagnosis; acting as liaison with physician and supportive care personnel; preparing equipment, such as immobilization, treatment, and protection devices; and maintaining records, reports, and files. May assist in dosimetry procedures and tumor localization.

2018 Jobs

112

2008–18 % Change

+29%

Median Hourly Earnings

\$33.89

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Associate's degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

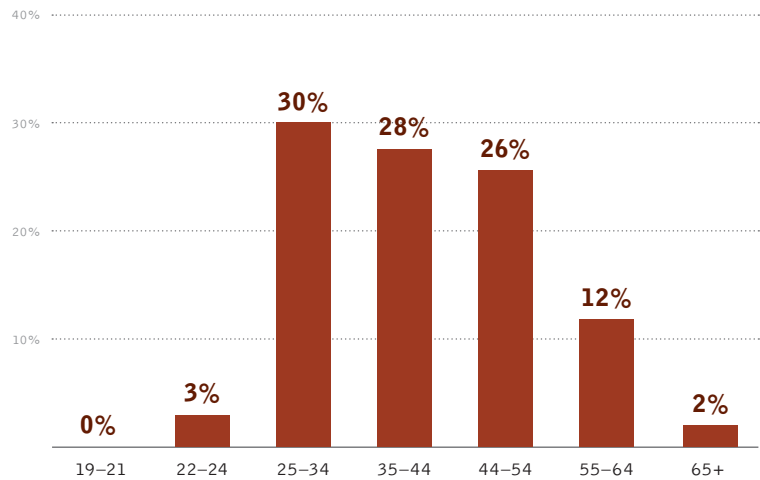
Medical Radiologic  
Technology/Science —  
Radiation Therapist

**TOP SKILLS**

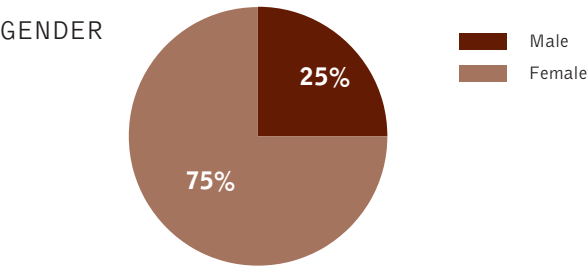
Reading Comprehension  
Active Listening  
Critical Thinking  
Social Perceptiveness  
Speaking

## DEMOGRAPHICS

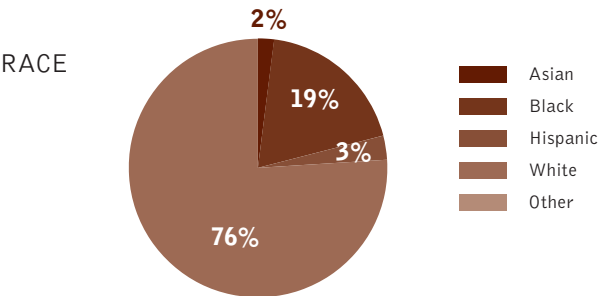
AGE



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# Respiratory Therapists

Assess, treat, and care for patients with breathing disorders. Assume primary responsibility for all respiratory care modalities, including the supervision of respiratory therapy technicians. Initiate and conduct therapeutic procedures; maintain patient records; and select, assemble, check, and operate equipment. May be responsible for providing emergency care, such as artificial respiration, external cardiac massage, or assistance with cardiopulmonary resuscitation.

2018 Jobs

582

2008–18 % Change

+32%

Median Hourly Earnings

\$26.91

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Associate's degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

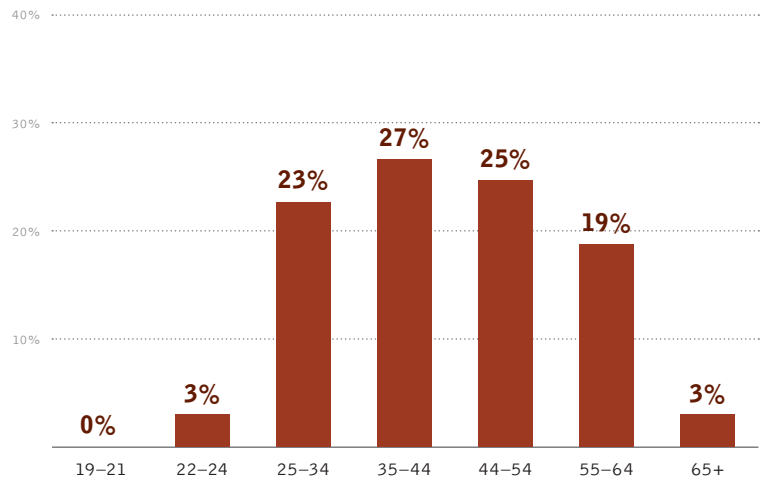
Respiratory Care Therapy/  
Therapist

**TOP SKILLS**

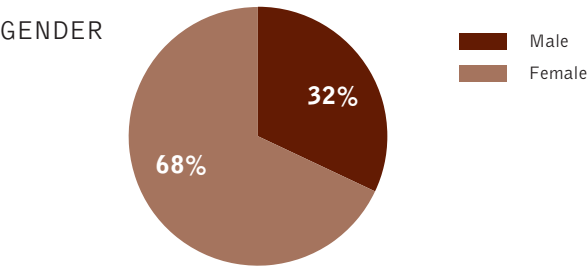
Critical Thinking  
Reading Comprehension  
Speaking  
Monitoring  
Active Listening

## DEMOGRAPHICS

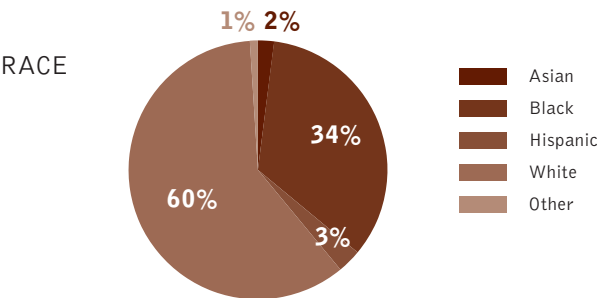
AGE



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# Clinical Laboratory Technologists and Technicians

Perform routine or complex medical laboratory tests for diagnosis, treatment, and prevention of disease. Analyze laboratory findings to check the accuracy of the results. Operate, calibrate, or maintain equipment used in quantitative or qualitative analysis, such as spectrophotometers, calorimeters, flame photometers, or computer-controlled analyzers.

2018 Jobs

1,616

2008–18 % Change

+10%

Median Hourly Earnings

\$21.94

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Associate's degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Renal/Dialysis Technologist/  
Technician

Clinical/Medical Laboratory  
Technician

Clinical Laboratory Science/  
Medical Technology/  
Technologist

**TOP SKILLS**

Science

Reading Comprehension

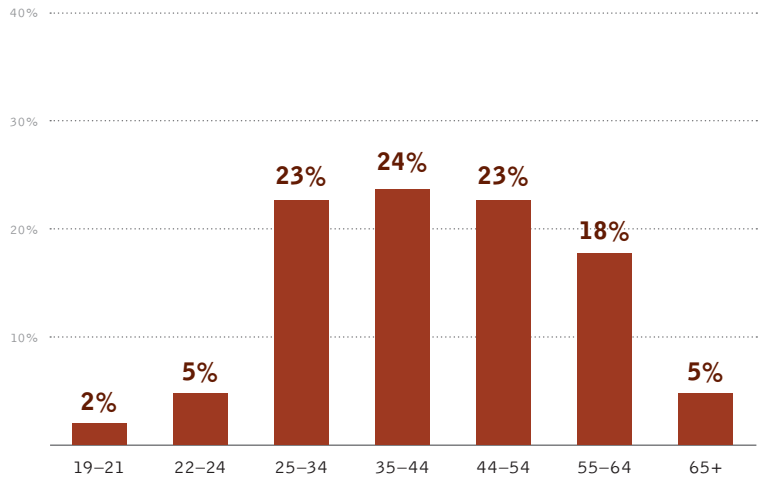
Active Listening

Critical Thinking

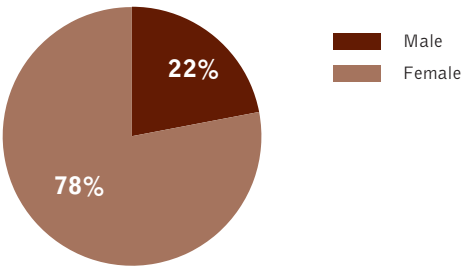
Active Learning

## DEMOGRAPHICS

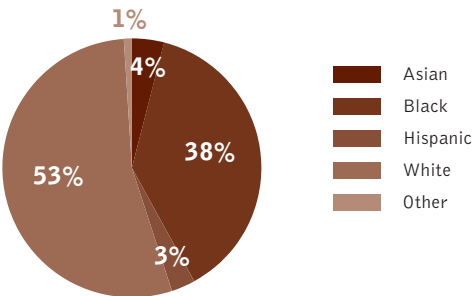
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**GENDER**



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# Cardiovascular Technologists and Technicians

Conduct electrocardiogram (EKG), phonocardiogram, echocardiogram, stress testing, or other cardiovascular tests to record patients' cardiac activity, using specialized electronic test equipment, recording devices, or laboratory instruments for diagnostic purposes. Explain testing procedures to patients to obtain cooperation and reduce anxiety. Obtain and record patient identification, medical history, or test results.

2018 Jobs

231

2008–18 % Change

+28%

Median Hourly Earnings

\$20.25

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Associate's degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Electrocardiograph  
Technology/Technician

Cardiovascular Technology/  
Technologist

**TOP SKILLS**

Reading Comprehension

Active Listening

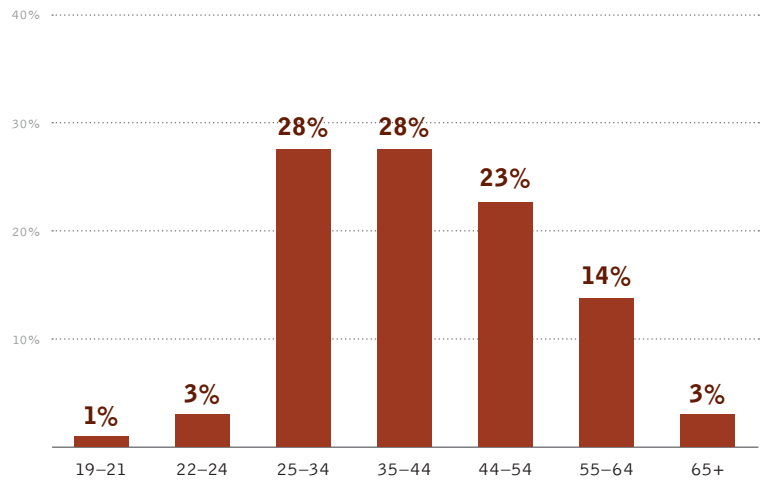
Critical Thinking

Monitoring

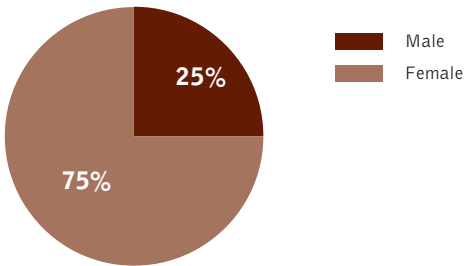
Speaking

## DEMOGRAPHICS

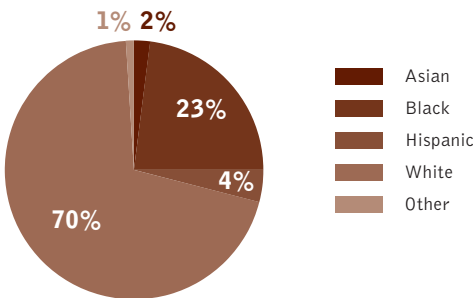
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# Diagnostic Medical Sonographers

Operate ultrasound equipment to produce and record images of the motion, shape, and composition of blood, organs, tissues, or bodily masses, such as fluid accumulations. Select appropriate equipment settings and adjust patient positions to obtain the best sites and angles. Provide sonogram and oral or written summary of technical findings to physician for use in medical diagnosis.

2018 Jobs

267

2008–18 % Change

+48%

Median Hourly Earnings

\$27.53

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Associate's degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

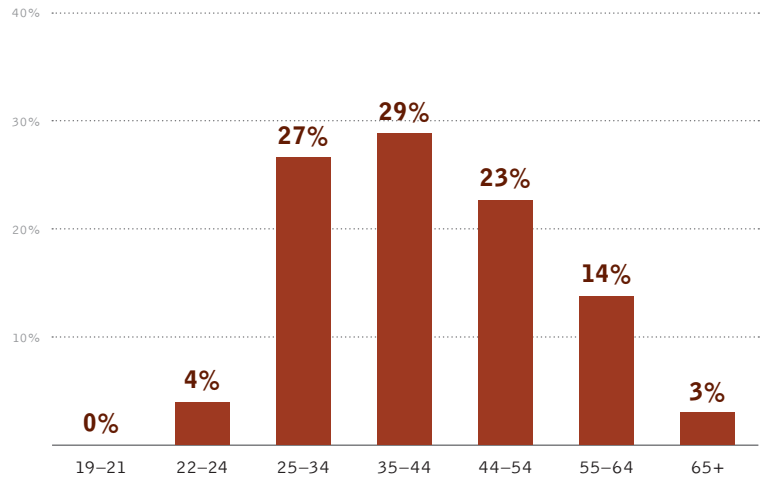
Diagnostic Medical  
Sonography/Sonographer and  
Ultrasound Technician

**TOP SKILLS**

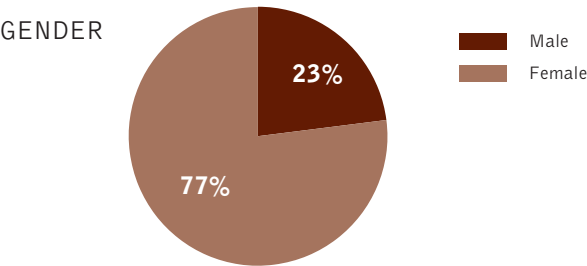
Active Listening  
Reading Comprehension  
Speaking  
Critical Thinking  
Writing

## DEMOGRAPHICS

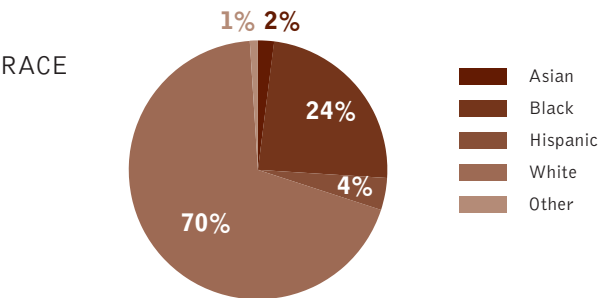
**AGE**



**GENDER**



**RACE**



# Radiologic Technologists

Take x rays and CAT scans or administer nonradioactive materials into patient’s blood stream for diagnostic purposes. Review and evaluate developed x-rays, video tape, or computer-generated information to determine if images are satisfactory for diagnostic purposes. Includes technologists who specialize in other scanning modalities.

2018 Jobs

719

2008–18 % Change

+16%

Median Hourly Earnings

\$25.83

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Associate’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Radiologic Technology/  
Science – Radiographer

Medical Radiologic  
Technology/Science –  
Radiation Therapist

**TOP SKILLS**

Speaking

Active Listening

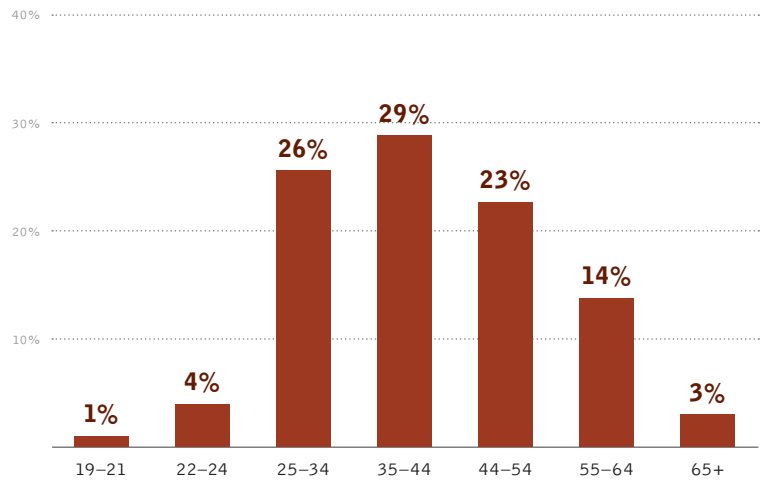
Reading Comprehension

Critical Thinking

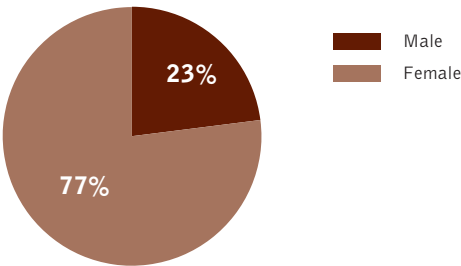
Writing

## DEMOGRAPHICS

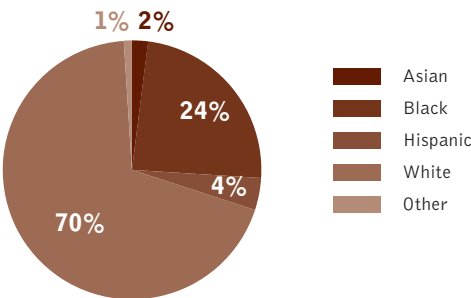
AGE



GENDER



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# Licensed Practical and Licensed Vocational Nurses

Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. Administer prescribed medications or start intravenous fluids, noting times and amounts on patients' charts. May work under the supervision of a registered nurse.

2018 Jobs  
5,445

2008–18 % Change  
0%

Median Hourly Earnings  
\$19.42

Skill Level  
Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Postsecondary nondegree award

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

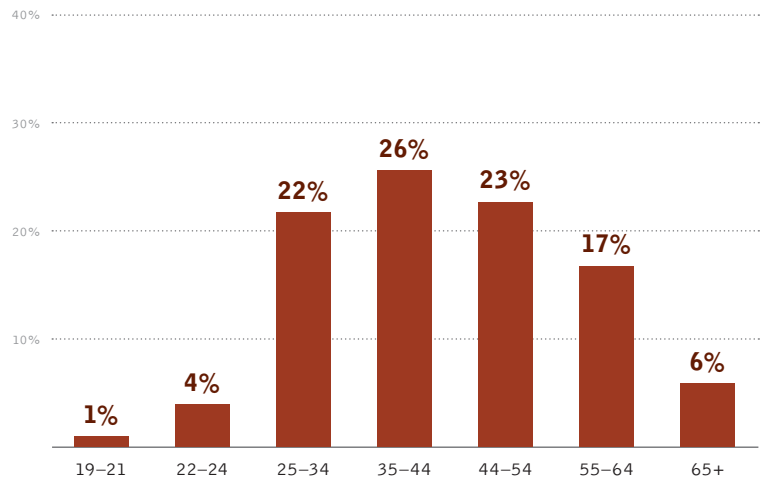
Licensed Practical/Vocational Nurse Training

**TOP SKILLS**

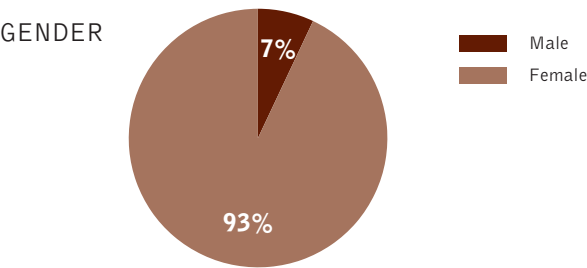
Speaking  
Critical Thinking  
Service Orientation  
Social Perceptiveness  
Coordination

## DEMOGRAPHICS

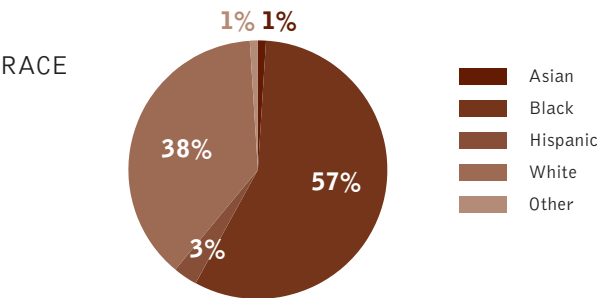
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**GENDER**



**RACE**



# Occupational Health and Safety Technicians

May collect data on work environments for analysis by occupational health and safety specialists. Implement and conduct evaluation of programs designed to limit chemical, physical, biological, and ergonomic risks to workers. Experience in analytical or scientific software in addition to data base user interface software may be required.

2018 Jobs

143

2008–18 % Change

+64%

Median Hourly Earnings

\$19.66

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

High school diploma or equivalent

**ON THE JOB TRAINING**

Moderate-term

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Environmental Health

Occupational Safety and Health Technology/Technician

**TOP SKILLS**

Monitoring

Reading Comprehension

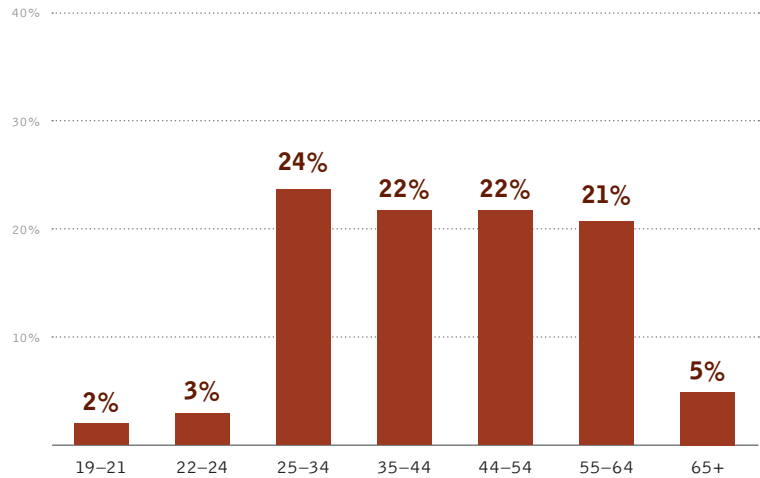
Speaking

Active Listening

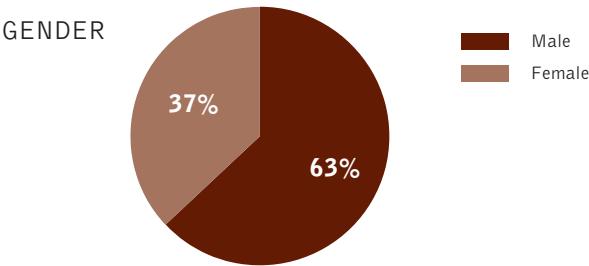
Critical Thinking

## DEMOGRAPHICS

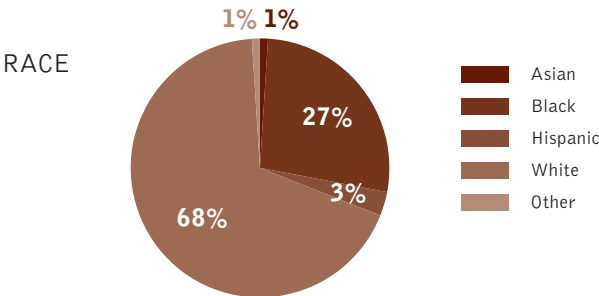
AGE



GENDER



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# Occupational Therapy Assistants

Assist occupational therapists in providing occupational therapy treatments and procedures. Monitor patients’ performance in therapy activities. May, in accordance with state laws, assist in development of treatment plans, carry out routine functions, direct activity programs, and document the progress of treatments.

2018 Jobs

141

2008–18 % Change

+53%

Median Hourly Earnings

\$22.69

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Associate’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

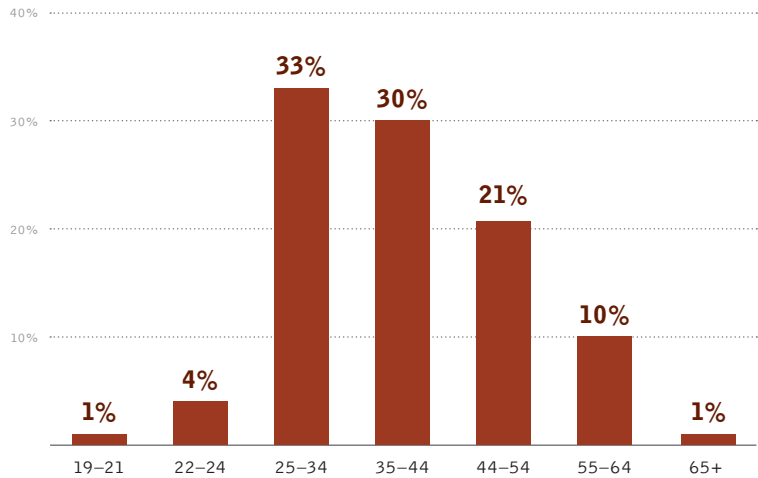
Occupational Therapist Assistant

**TOP SKILLS**

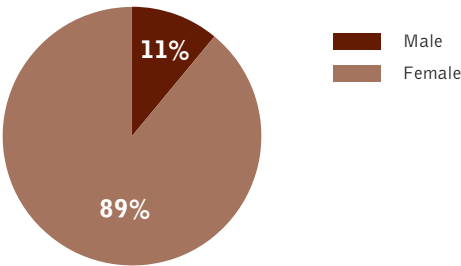
Active Listening  
Social Perceptiveness  
Writing  
Reading Comprehension  
Coordination

## DEMOGRAPHICS

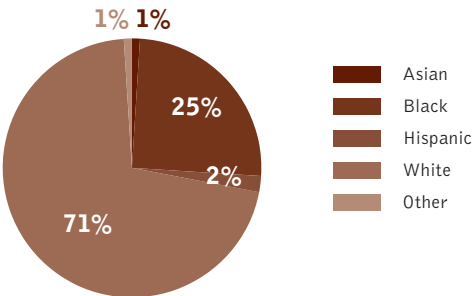
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**GENDER**



**RACE**



# Medical and Health Services Managers

Plan, direct, or coordinate medical and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations. Develop and maintain computerized record management systems to store and process data, such as personnel activities and information, and to produce reports.

2018 Jobs

659

2008–18 % Change

+86%

Median Hourly Earnings

\$37.41

Skill Level

High

Key Industries



## EDUCATION & SKILLS

### EDUCATION

Bachelor’s degree

### ON THE JOB TRAINING

None

### WORK EXPERIENCE

Less than 5 years

### TOP PROGRAMS

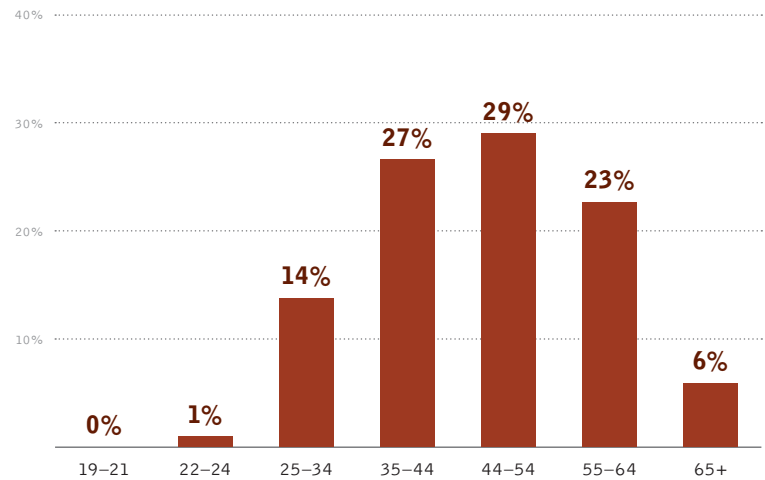
Human Resources  
Management/Personnel  
Administration, General

### TOP SKILLS

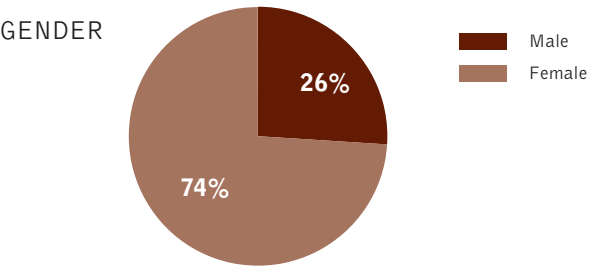
Management of Personell  
Resources  
Monitoring  
Critical thinking  
Time Management  
Reading Comprehension

## DEMOGRAPHICS

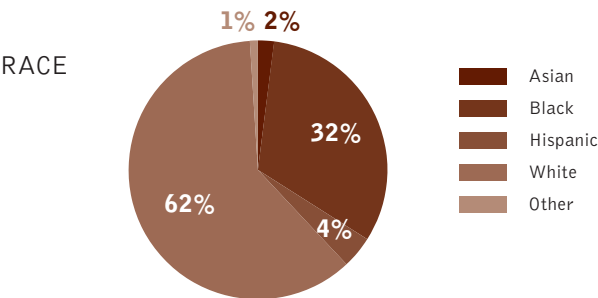
### AGE



### GENDER



### RACE



# Registered Nurses

Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention or provide case management. Licensing or registration required.

2018 Jobs  
17,827

2008–18 % Change  
+28%

Median Hourly Earnings  
\$31.55

Skill Level  
High



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Registered Nursing/Registered Nurse

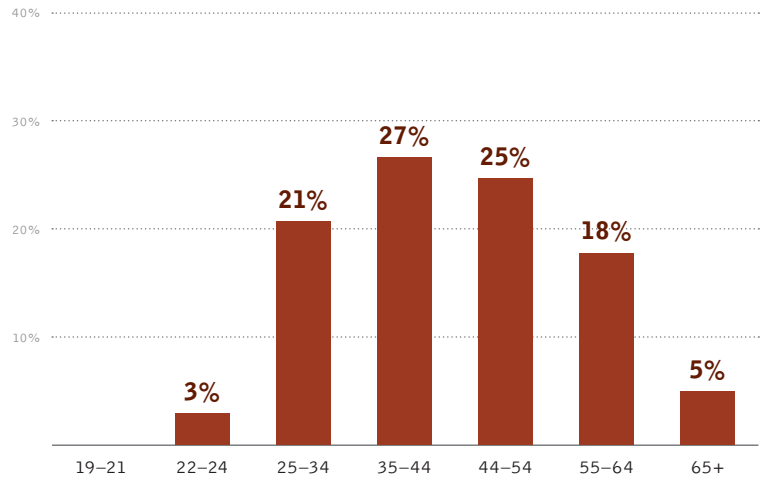
Registered Nursing, Nursing Administration, Nursing Research and Clinical Nursing, Other  
Nursing Practice

**TOP SKILLS**

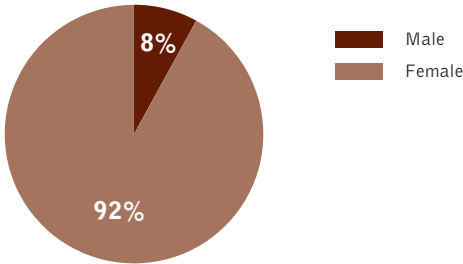
Social Perceptiveness  
Reading Comprehension  
Coordination  
Service Orientation  
Active Listening

## DEMOGRAPHICS

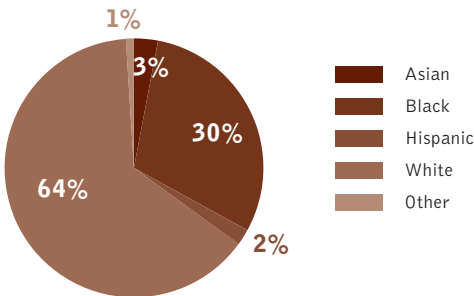
**AGE**



**GENDER**



**RACE**



# Occupational Health and Safety Specialists

Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector. Includes environmental protection officers.

2018 Jobs

361

2008–18 % Change

+50%

Median Hourly Earnings

\$30.80

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Environmental Health

Occupational Safety and Health Technology/Technician

**TOP SKILLS**

Judgment and Decision Making

Active Learning

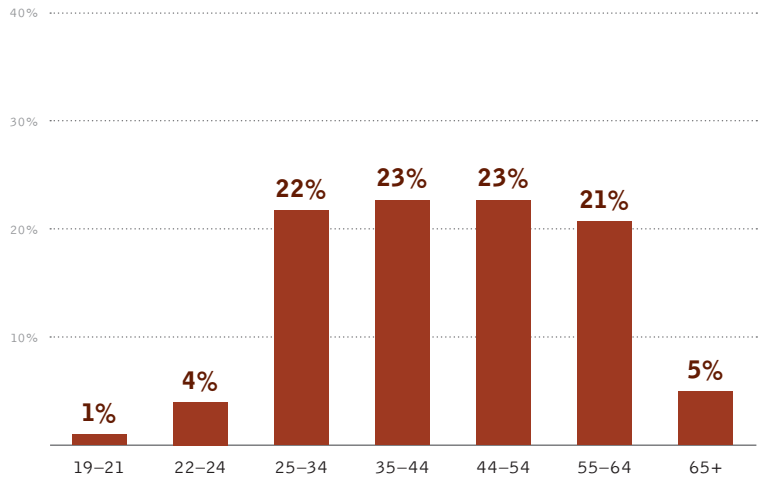
Critical Thinking

Active Listening

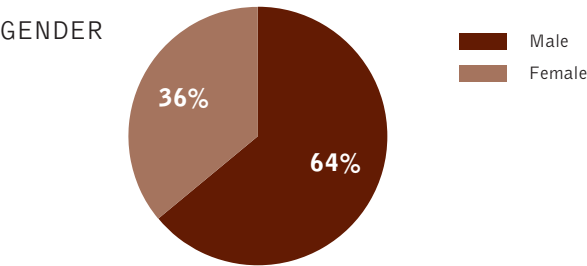
Speaking

## DEMOGRAPHICS

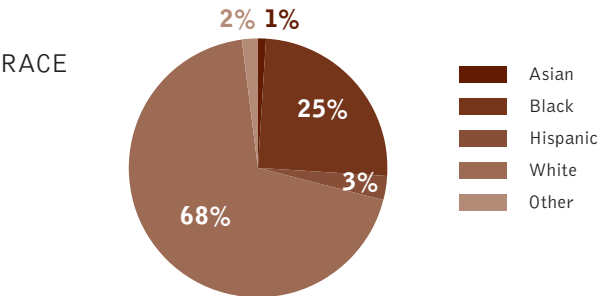
AGE



GENDER



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# Engineering & Life Sciences Occupations

The combination of the Greater New Orleans region's offshore oil and gas industry, and aforementioned healthcare center provide a cluster of opportunities in engineering and life sciences occupations. The energy, petrochemical, and plastics industries employ thousands of skilled workers across the region, and seek similar competencies to certain healthcare occupations as well. The transferability between high-demand, high-wage occupations in these sectors make these career opportunities especially abundant, with refineries and plants in the region spending billions of dollars in planned expansions.

# Chemical Technicians

Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences.

2018 Jobs

576

2008–18 % Change

+22%

Median Hourly Earnings

\$27.07

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Associate's degree

**ON THE JOB TRAINING**

Moderate-term

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

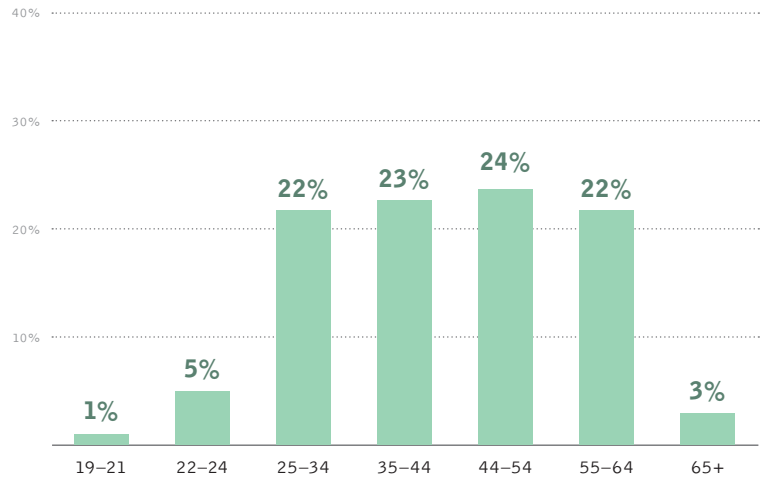
None

**TOP SKILLS**

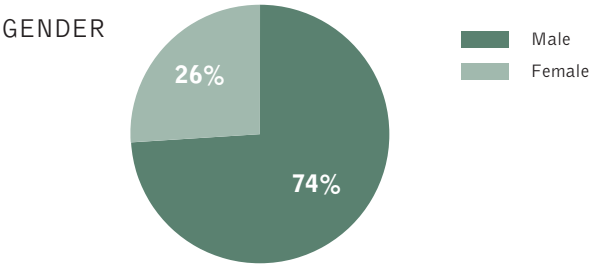
- Critical Thinking
- Reading Comprehension
- Active Listening
- Science
- Writing

## DEMOGRAPHICS

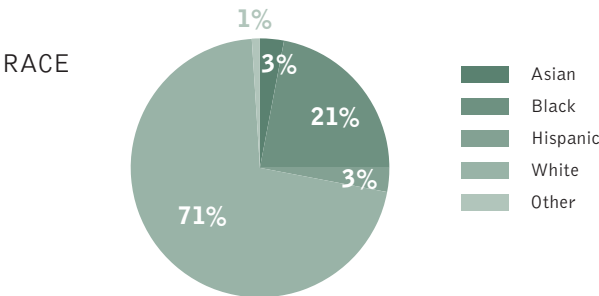
**AGE**



**GENDER**



**RACE**



# Chemical Engineers

Design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, by applying principles and technology of chemistry, physics, and engineering. Troubleshoot problems with chemical manufacturing processes. Develop safety procedures to be employed by workers operating equipment or working in close proximity to ongoing chemical reactions.

2018 Jobs

743

2008–18 % Change

+36%

Median Hourly Earnings

\$45.21

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Chemical Engineering

**TOP SKILLS**

Science

Critical Thinking

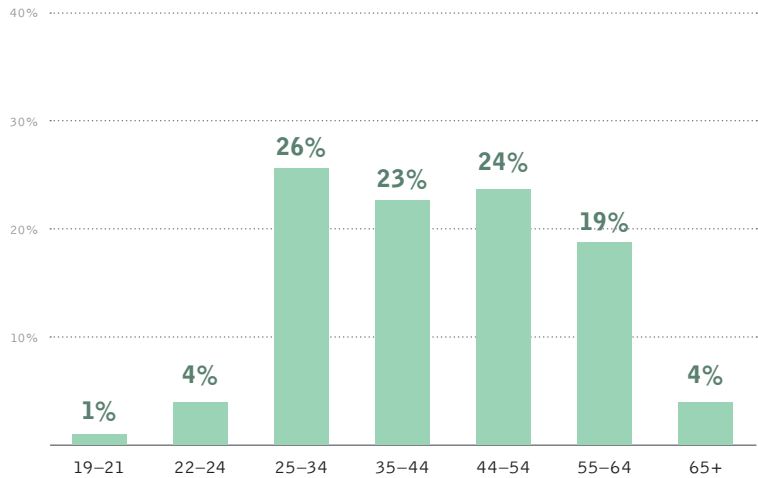
Mathematics

Operations Analysis

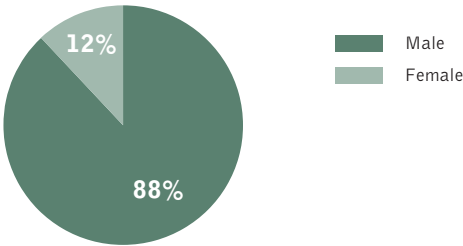
Active Learning

## DEMOGRAPHICS

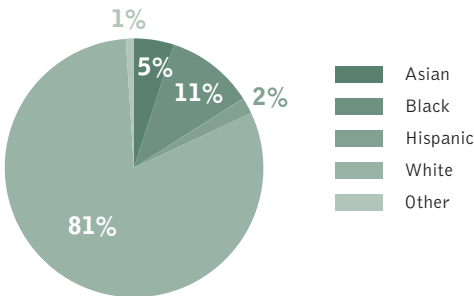
**AGE**



**GENDER**



**RACE**



# Civil Engineers

Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems. Includes architectural, structural, traffic, ocean, and geo-technical engineers.

2018 Jobs  
1,189

2008–18 % Change  
+5%

Median Hourly Earnings  
\$42.91

Skill Level  
High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

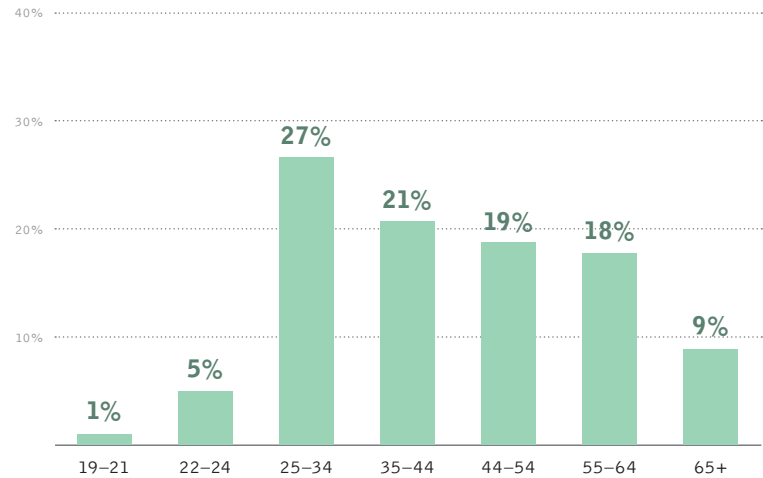
Civil Engineering, General

**TOP SKILLS**

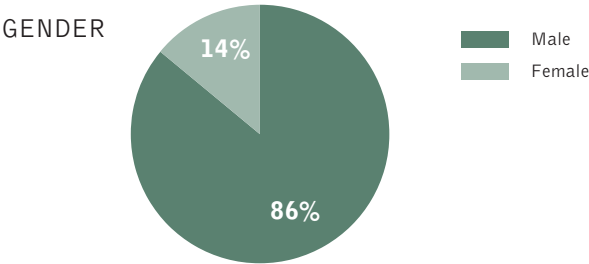
- Mathematics
- Reading Comprehension
- Operations Analysis
- Critical Thinking
- Active Learning

## DEMOGRAPHICS

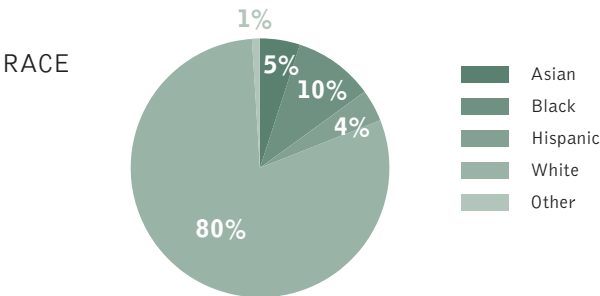
**AGE**



**GENDER**



**RACE**



# Petroleum Engineers

Assess costs and estimate the production capabilities and economic value of oil and gas wells, to evaluate the economic viability of potential drilling sites. Analyze data to recommend placement of wells and supplementary processes to enhance production. Devise methods to improve oil and gas extraction and production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice.

2018 Jobs

291

2008–18 % Change

+53%

Median Hourly Earnings

\$82.52

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

None

**TOP SKILLS**

Reading Comprehension

Critical Thinking

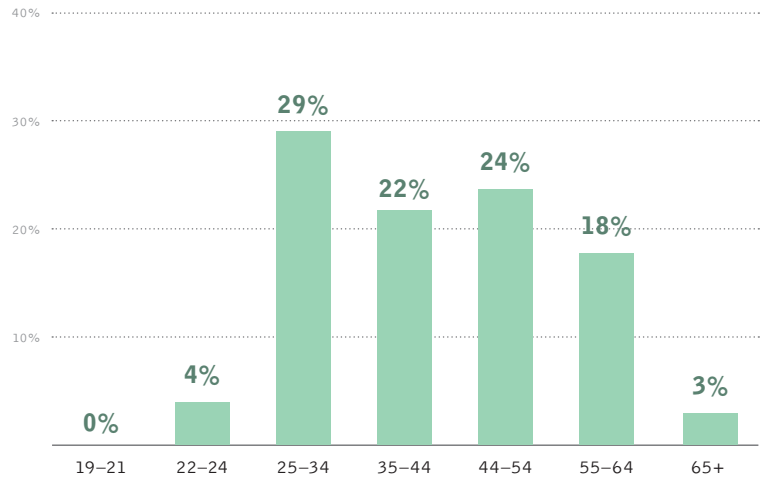
Complex Problem Solving

Writing

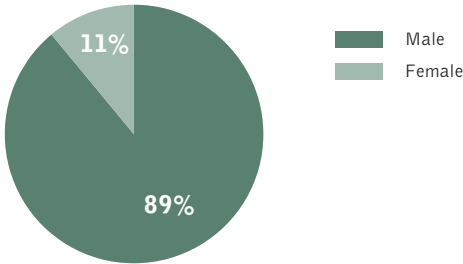
Speaking

## DEMOGRAPHICS

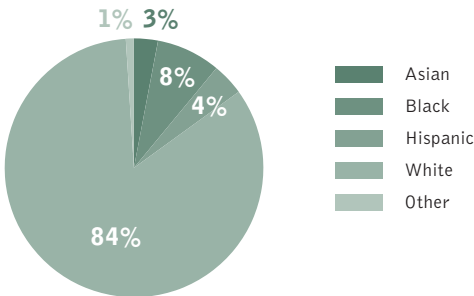
**AGE**



**GENDER**



**RACE**



# Environmental Scientists and Specialists, Including Health

Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Using knowledge of various scientific disciplines, may collect, synthesize, study, report, and recommend action based on data derived from measurements or observations of air, food, soil, water, and other sources.

2018 Jobs

355

2008–18 % Change

+6%

Median Hourly Earnings

\$21.41

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

Environmental Studies

Environmental Science

**TOP SKILLS**

Reading Comprehension

Science

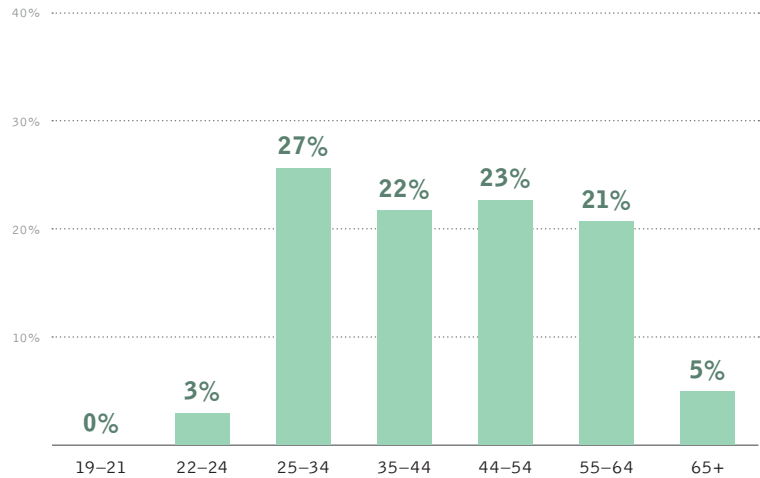
Writing

Speaking

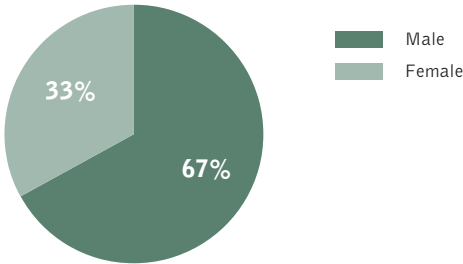
Active Listening

## DEMOGRAPHICS

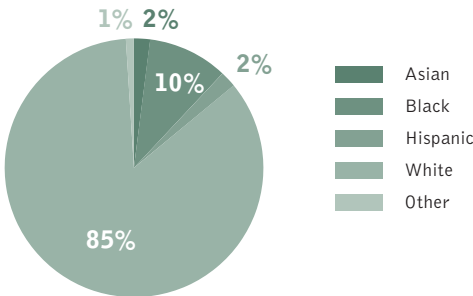
**AGE**



**GENDER**



**RACE**







# Construction & Maintenance Occupations

The Greater New Orleans region is one of the only areas in the world equipped to design, manufacture, and assemble advanced space and defense products, including military ground transportation vehicles, civilian and military aircraft, space vehicles, and both naval and commercial ships and boats. In addition to unparalleled infrastructure, lucrative incentives, and a talented workforce, the region provides access to several large defense contractors and NASA's Michoud Assembly Facility. This, in turn, allows the region to procure key government contracts and leverage regional technology expertise to aid other advanced manufacturing operations—all of which present career pathways for residents.

# Heating, Air Conditioning, and Refrigeration Mechanics and Installers

Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves. May test pipe or tubing joints or connections for leaks, or test electrical circuits or components for continuity. May dismantle malfunctioning systems and test components, using electrical, mechanical, and pneumatic testing equipment.

2018 Jobs  
**1,585**

2008–18 % Change  
**+14%**

Median Hourly Earnings  
**\$29.81**

Skill Level  
**Middle**

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Postsecondary non-degree award

**ON THE JOB TRAINING**

Long-term

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

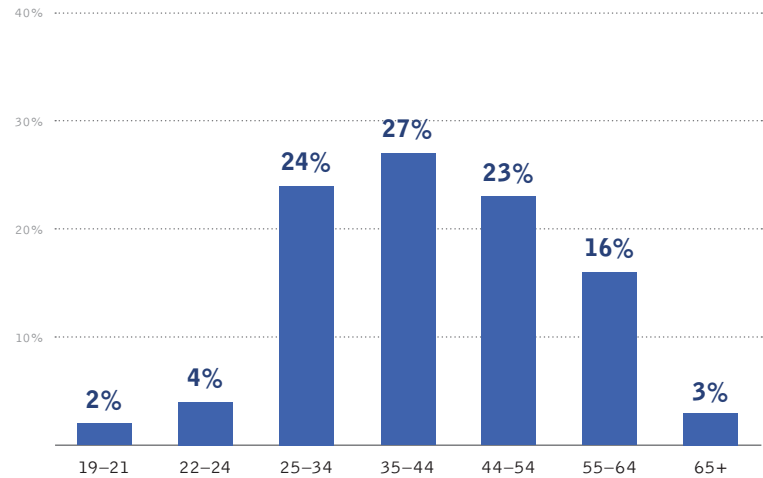
Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician

**TOP SKILLS**

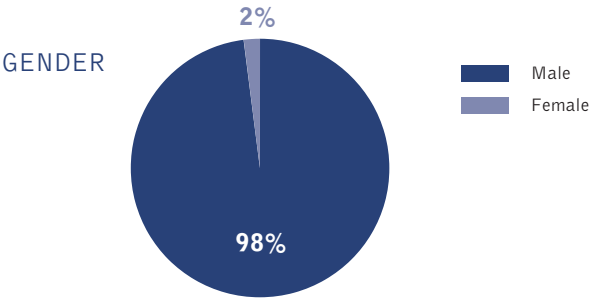
Repairing  
Troubleshooting  
Equipment Maintenance  
Installation  
Quality Control Analysis

## DEMOGRAPHICS

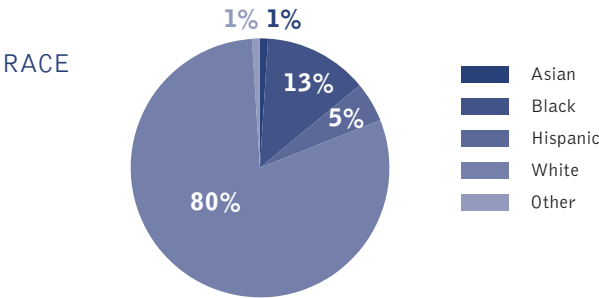
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**GENDER**



**RACE**





# Industrial Machinery Mechanics

Repair or maintain the operating condition of industrial production or processing machinery or equipment. Repair or replace broken or malfunctioning components of machinery or equipment. Observe and test the operation of machinery or equipment to diagnose malfunctions, using voltmeters or other testing devices.

2018 Jobs  
1,489

2008–18 % Change  
+18%

Median Hourly Earnings  
\$22.69

Skill Level  
Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

High school diploma or equivalent

**ON THE JOB TRAINING**

Long-term

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

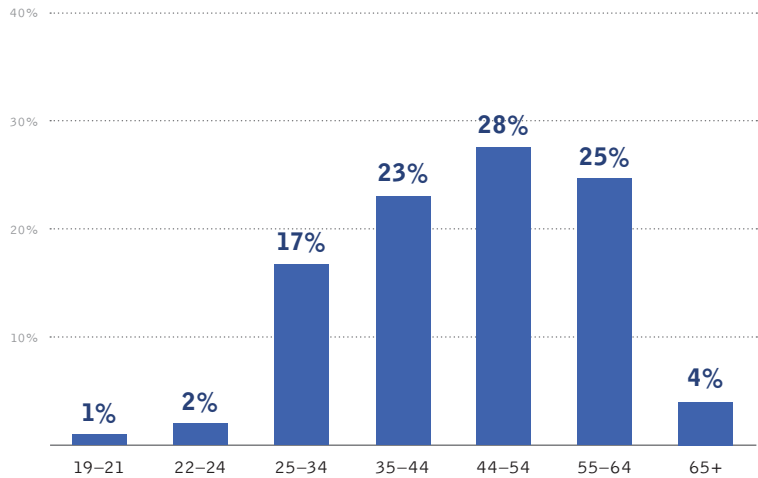
Industrial Mechanics and Maintenance Technology

**TOP SKILLS**

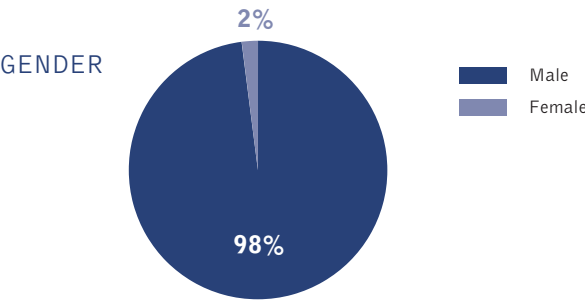
Repairing  
Equipment Maintenance  
Operation Monitoring  
Troubleshooting  
Operation and Control

## DEMOGRAPHICS

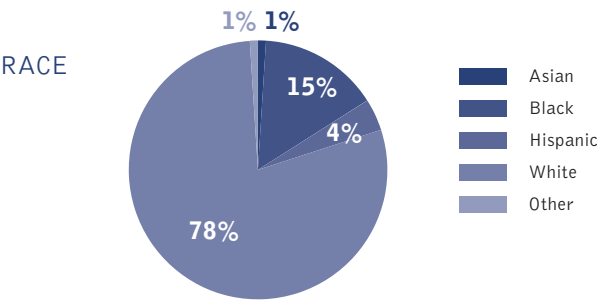
**AGE**



**GENDER**



**RACE**



# Maintenance Workers (Machinery)

Start machines and observe mechanical operation to determine efficiency and to detect problems. Read work orders and specifications to determine machines and equipment requiring repair or maintenance. Inspect or test damaged machine parts, and mark defective areas or advise supervisors of repair needs. Dismantle machines and remove parts for repair, using hand tools, chain falls, jacks, cranes, or hoists.

2018 Jobs

703

2008–18 % Change

0%

Median Hourly Earnings

\$24.80

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

High school diploma or equivalent

**ON THE JOB TRAINING**

Long-term

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

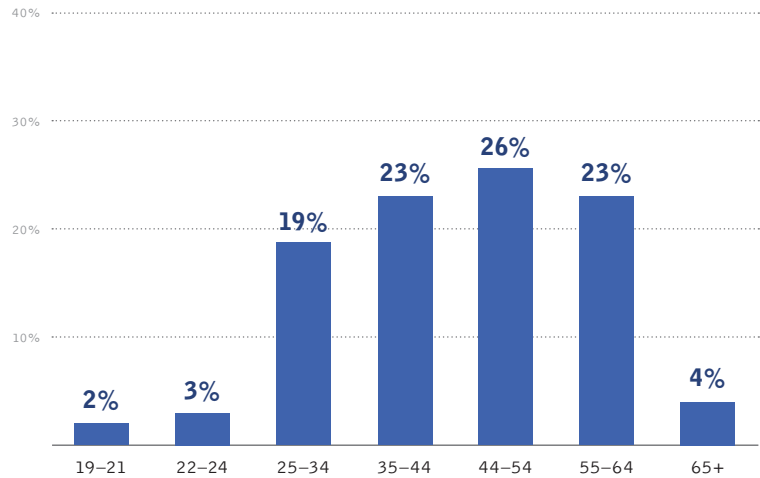
Industrial Mechanics and Maintenance Technology

**TOP SKILLS**

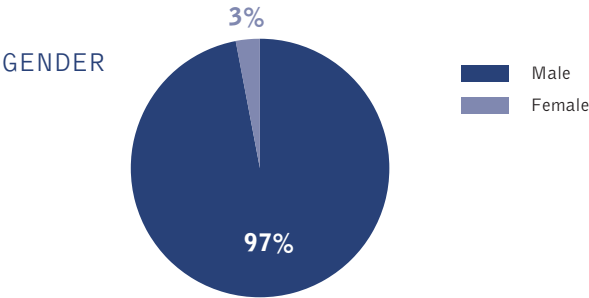
Equipment Maintenance  
Repairing  
Operation Monitoring  
Operation and Control  
Troubleshooting

## DEMOGRAPHICS

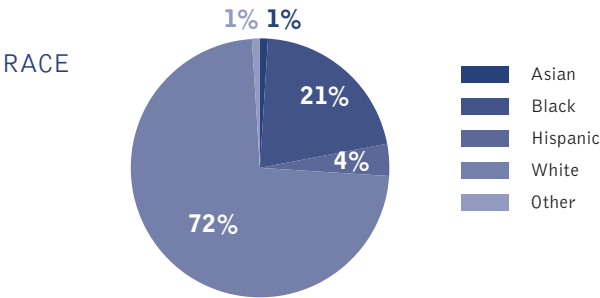
AGE



GENDER



RACE



# Construction Managers

Plan, direct, or coordinate, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, budgeting, and implementation. Prepare and submit budget estimates, progress reports, or cost tracking reports.

2018 Jobs

659

2008–18 % Change

+86%

Median Hourly Earnings

\$37.41

Skill Level

High

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Bachelor’s degree

**ON THE JOB TRAINING**

Moderate-term

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

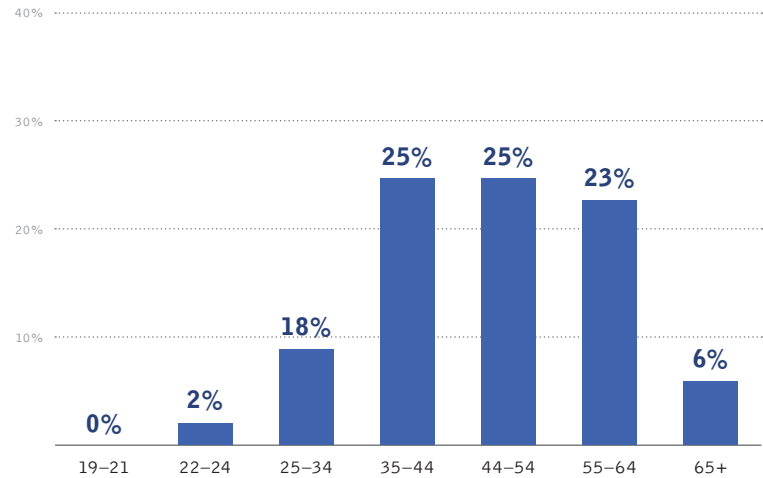
Human Resources  
Management/Personnel  
Administration, General

**TOP SKILLS**

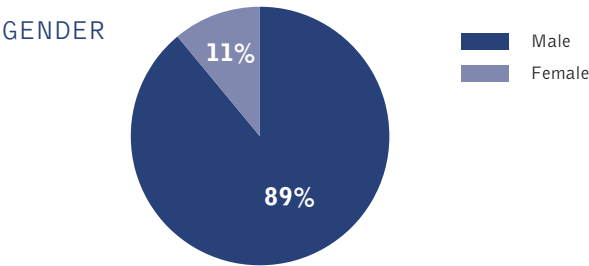
Management of Personell  
Resources  
Monitoring  
Critical thinking  
Time Management  
Reading Comprehension

## DEMOGRAPHICS

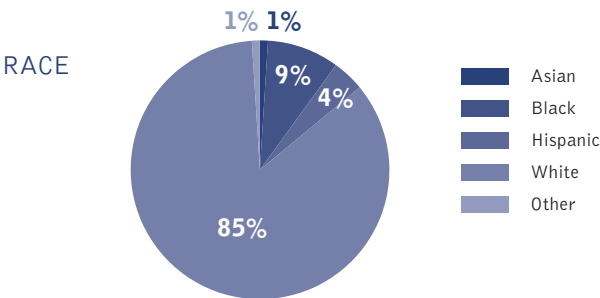
**AGE**



**GENDER**



**RACE**





# Transportation & Production Occupations

Located at the mouth of the Mississippi River, the Greater New Orleans region was founded as the nation's logistical hub and continues to offer unparalleled infrastructure for international trade. Its location alone — which offers availability of land with deep water access — is cause for trade, logistics, and distribution companies to thrive. Combined with the region's extensive transportation systems, skilled workforce, and aggressive incentives, the Greater New Orleans region is a global competitor.

# Sailors and Marine Oilers

Stand watch to look for obstructions in path of vessel, measure water depth, turn wheel on bridge, or use emergency equipment as directed by captain, mate, or pilot. Perform a variety of maintenance tasks to preserve the painted surface of the ship and to maintain line and ship equipment. Must hold government-issued certification and tankerman certification when working aboard liquid-carrying vessels.

2018 Jobs  
2,543

2008–18 % Change  
+6%

Median Hourly Earnings  
\$19.09

Skill Level  
Basic

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

No formal educational credential

**ON THE JOB TRAINING**

Moderate-term

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

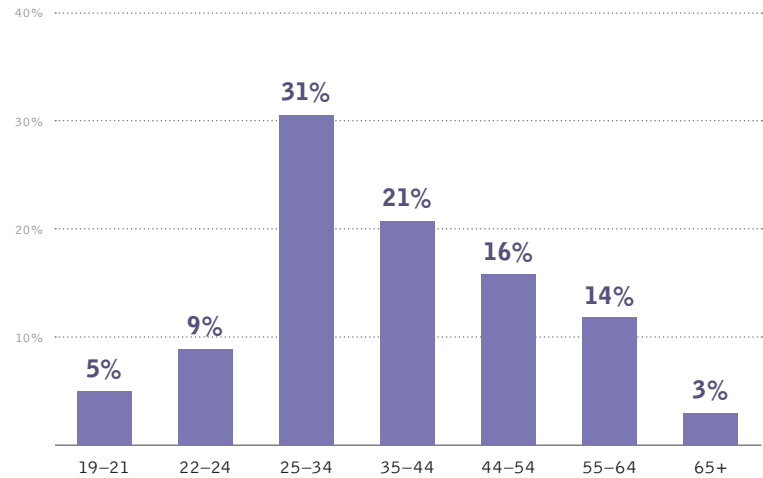
None

**TOP SKILLS**

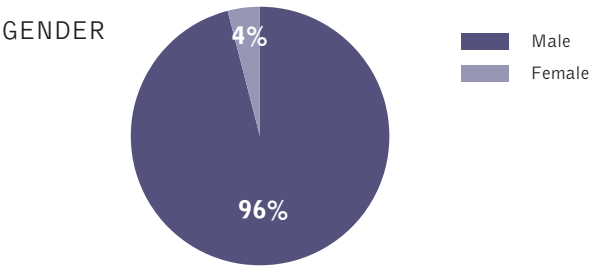
- Operation Monitoring
- Operation and Control
- Reading Comprehension
- Repairing
- Troubleshooting

## DEMOGRAPHICS

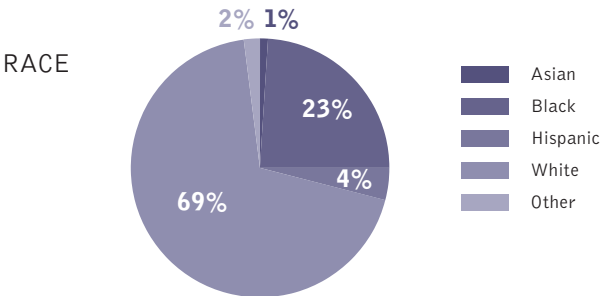
**AGE**



**GENDER**



**RACE**



# Tank Car, Truck, and Ship Loaders

Load and unload chemicals and bulk solids, such as coal, sand, and grain into or from tank cars, trucks, or ships using material moving equipment. May perform a variety of other tasks relating to shipment of products. May gauge or sample shipping tanks and test them for leaks.

2018 Jobs

478

2008–18 % Change

+25%

Median Hourly Earnings

\$18.97

Skill Level

Basic

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

No formal educational credential

**ON THE JOB TRAINING**

Short-term

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

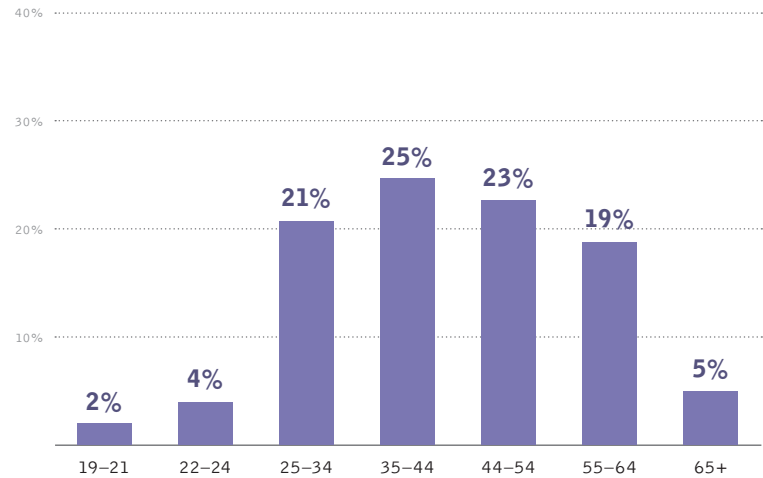
None

**TOP SKILLS**

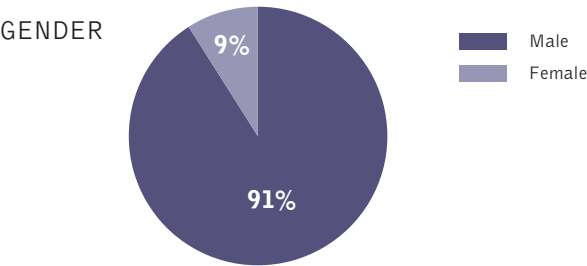
- Operation Monitoring
- Operation and Control
- Reading Comprehension
- Repairing
- Troubleshooting

## DEMOGRAPHICS

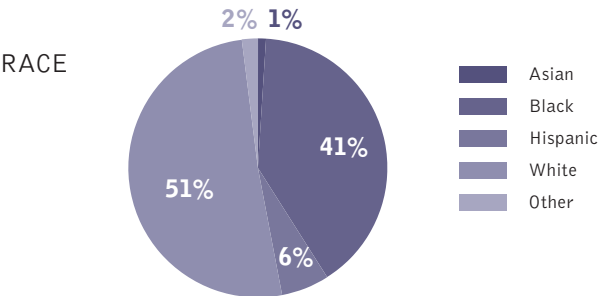
AGE



GENDER



RACE



# Captains, Mates, and Pilots of Water Vessels

Command or supervise operations of ships and water vessels, such as tugboats and ferryboats. Stand watches on vessels during specified periods while vessels are under way. May inspect vessels to ensure efficient and safe operation of vessels and equipment and conformance to regulations. Required to hold license issued by U.S. Coast Guard.

2018 Jobs  
2,648

2008–18 % Change  
+34%

Median Hourly Earnings  
\$40.86

Skill Level  
Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

Postsecondary nondegree award

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

Less than 5 years

**TOP PROGRAMS**

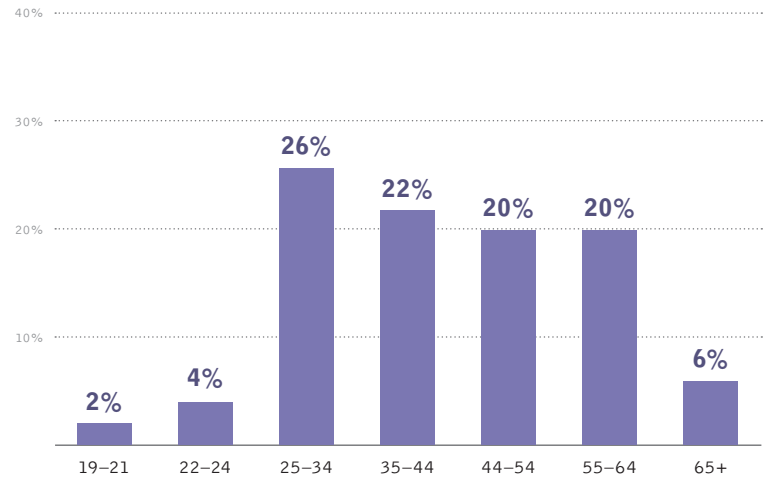
None

**TOP SKILLS**

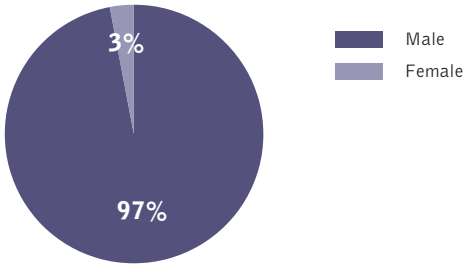
- Operation and Control
- Operation Monitoring
- Troubleshooting
- Critical Thinking
- Monitoring

## DEMOGRAPHICS

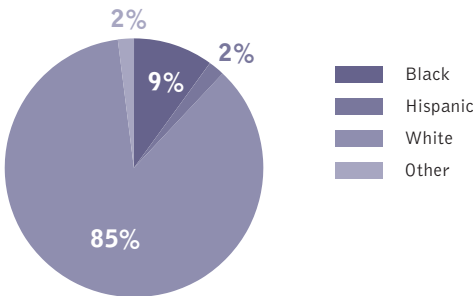
AGE



GENDER



RACE





# Crane and Tower Operators

Operate mechanical boom and cable or tower and cable equipment to lift and move materials, machines, or products in many directions. Determine load weights and check them against lifting capacities to prevent overload. Inspect and adjust crane mechanisms or lifting accessories to prevent malfunctions or damage.

2018 Jobs

950

2008–18 % Change

+15%

Median Hourly Earnings

\$22.88

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

High school diploma or equivalent

**ON THE JOB TRAINING**

Moderate-term

**WORK EXPERIENCE**

Less than 5 years

**TOP PROGRAMS**

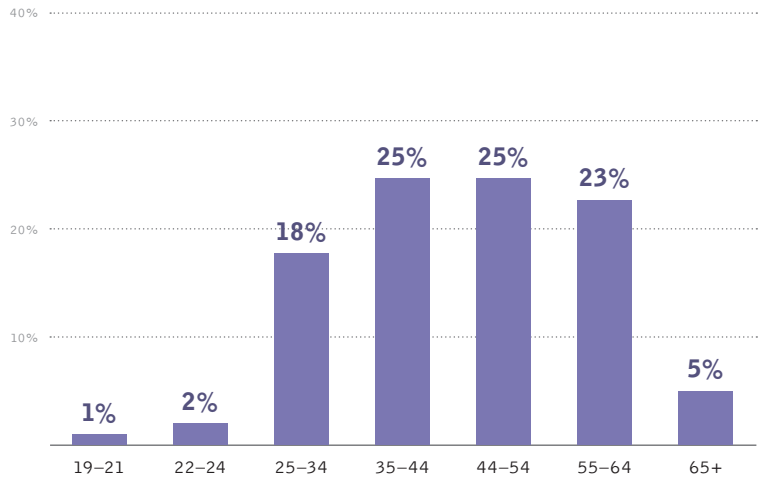
None

**TOP SKILLS**

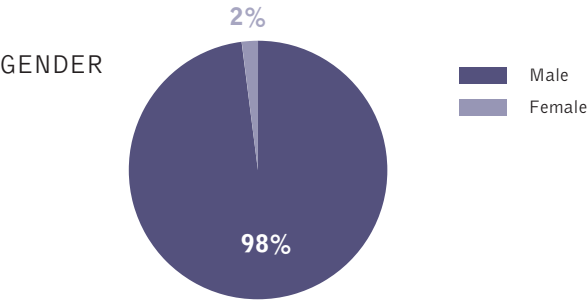
- Operation Monitoring
- Monitoring
- Operation and Control
- Reading Comprehension
- Coordination

## DEMOGRAPHICS

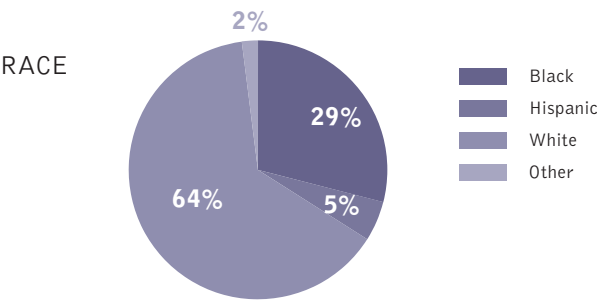
AGE



GENDER



RACE





# Transportation, Storage, and Distribution Managers

Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Daily workflows may include directing activities related to dispatching, routing, or tracking transportation vehicles, such as aircraft or railroad cars, or the supervision of activities of workers engaged in receiving, storing, testing, and shipping products or materials.

2018 Jobs

588

2008–18 % Change

+9%

Median Hourly Earnings

\$38.74

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

High school diploma or equivalent

**ON THE JOB TRAINING**

None

**WORK EXPERIENCE**

5 years or more

**TOP PROGRAMS**

Business Administration and Management, General

Business/Commerce, General

Logistics, Materials, and Supply Chain Management

**TOP SKILLS**

Coordination

Monitoring

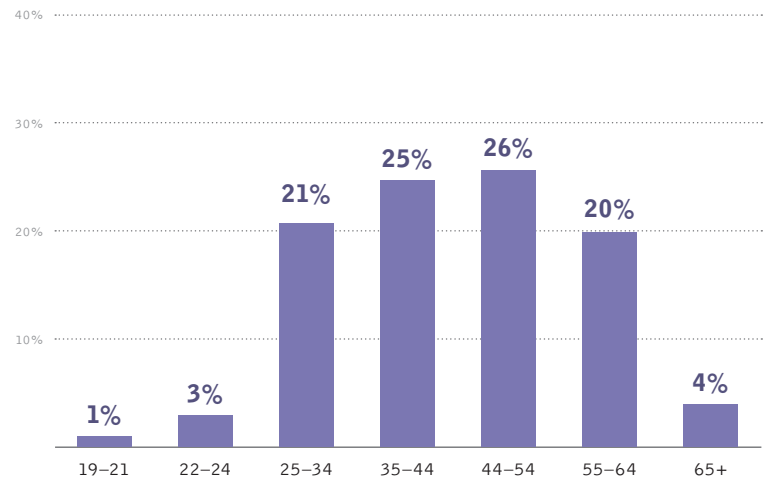
Reading Comprehension

Speaking

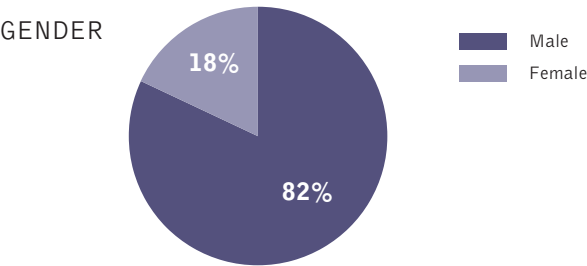
Systems Evaluation

## DEMOGRAPHICS

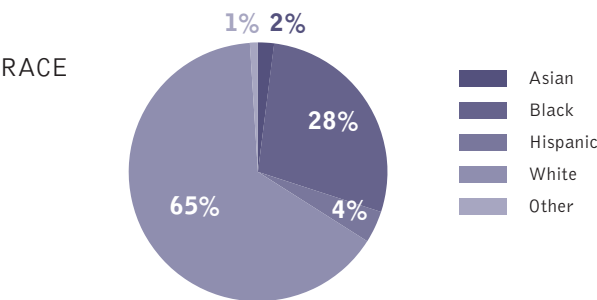
AGE



GENDER



RACE



# Chemical Equipment Operators and Tenders

Control or operate equipment in which chemical changes or reactions take place during the processing of industrial or consumer products. Observe safety precautions to prevent fires or explosions. Record operational data, such as temperatures, pressures, ingredients used, processing times, or test results. Knowledge of chemical composition, structure, and properties of substances and of the chemical processes and transformations that they undergo is needed.

2018 Jobs

163

2008–18 % Change

+50%

Median Hourly Earnings

\$33.02

Skill Level

Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

High school diploma or equivalent

**ON THE JOB TRAINING**

Moderate-term

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

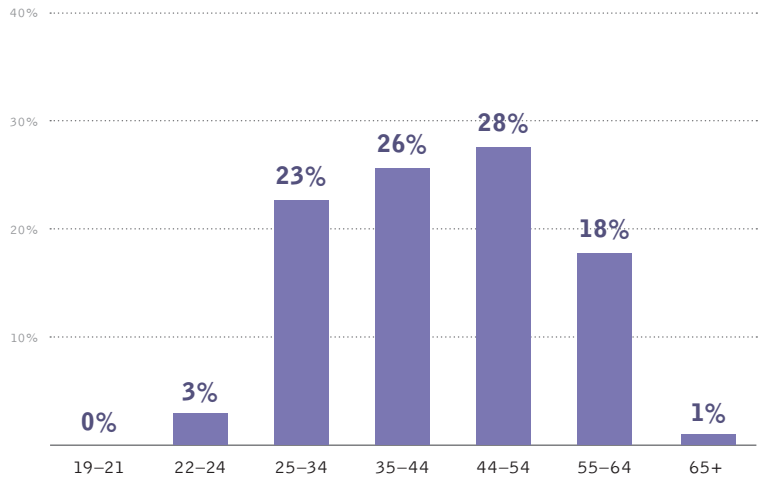
None

**TOP SKILLS**

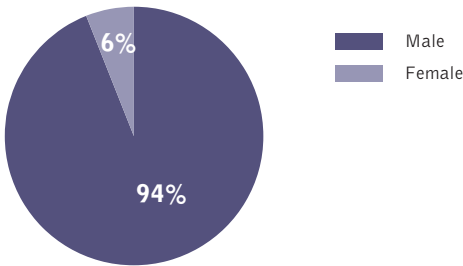
- Operation and Control
- Operation Monitoring
- Reading Comprehension
- Critical Thinking
- Monitoring

## DEMOGRAPHICS

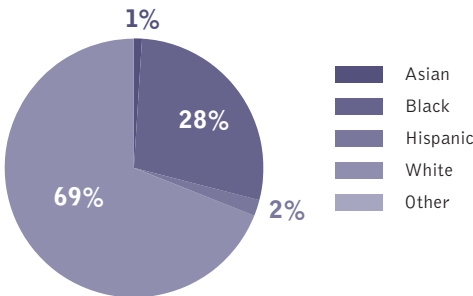
AGE



GENDER



RACE



# Inspectors, Testers, Sorters, Samplers, and Weighers

Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. Record inspection or test data, such as weights, temperatures, grades, or moisture content, and quantities inspected or graded. May use precision measuring instruments and complex test equipment.

2018 Jobs  
2,543

2008–18 % Change  
+6%

Median Hourly Earnings  
\$19.09

Skill Level  
Middle

Key Industries



## EDUCATION & SKILLS

**EDUCATION**

High school diploma or equivalent

**ON THE JOB TRAINING**

Moderate-term

**WORK EXPERIENCE**

None

**TOP PROGRAMS**

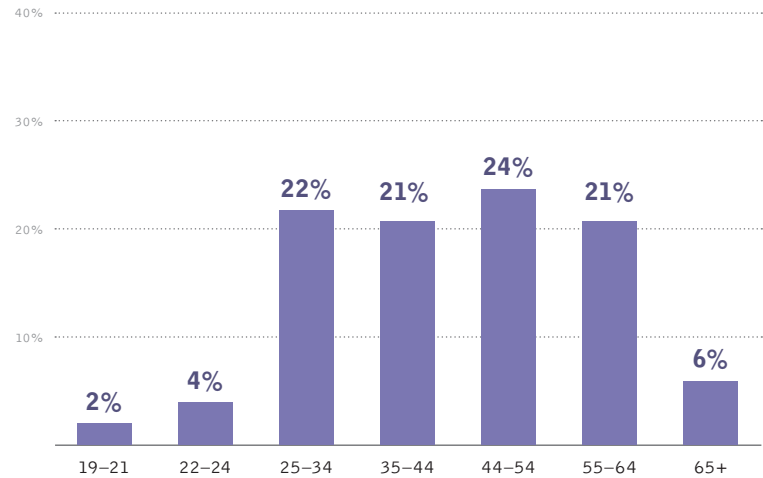
None

**TOP SKILLS**

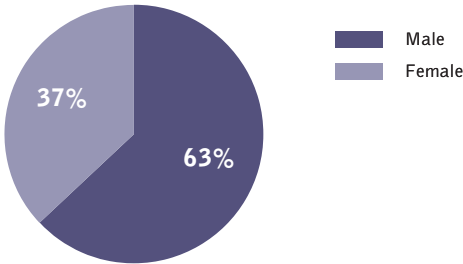
- Critical Thinking
- Reading Comprehension
- Operation Monitoring
- Monitoring
- Active Listening

## DEMOGRAPHICS

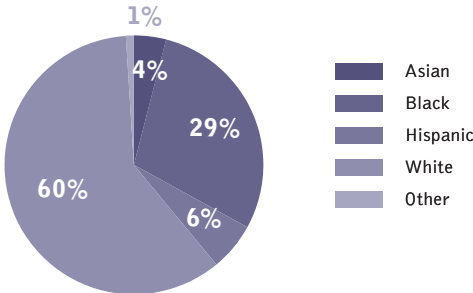
AGE



GENDER



RACE



# Glossary

## JOBS

A job is any full- or part-time position in which a worker provides labor in exchange for financial compensation. Job figures are reported as annual job averages and represent positions as opposed to workers, since a worker may occupy multiple jobs. For the purposes of this report, self-employed workers are not included.

## SKILL LEVEL

Skill level is determined by typical entry-level education, on-the-job training, and work experience.

- \* BASIC-SKILL jobs are those that either require a high school diploma with no formal training or experience, or do not require any formal education.
- \* MIDDLE-SKILL jobs are those that require some form of education or training beyond high school, but do not require a bachelor's degree.
- \* HIGH-SKILL jobs require a bachelor's degree or above.

## EARNINGS

Earnings include base pay, cost of living allowance, guaranteed pay, hazardous-duty pay, commissions and bonuses, on-call pay, and tips. For the purposes of this report, occupational earnings do not include benefits.

## TOP PROGRAMS

To determine the top programs by occupation, Emsi connects the jobs to the education programs that typically train for them using a modified version of the National Center for Education Statistics Classification of Instructional Programs (CIP) to SOC Crosswalk.

## TOP SKILLS

Top skills are determined by O\*NET by surveying a national random sample of job incumbents using standardized questionnaires. For the purposes of this report, the top five skills for each occupation as listed by Emsi were chosen.

## EDUCATION, TRAINING, AND ON-THE JOB EXPERIENCE

Typical entry level education is determined by the Bureau of Labor Statistic. Based off of analyses of quantitative data including educational attainment and work experienced, the BLS utilizes a methodology to assign categories for entry-level education, work experience, and typical on-the-job training to each occupation. Although multiple paths to entry for an occupation may exist, the BLS captures the typical path.

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