

Welcome to the 2019
Counselor Conference

Counseling for Careers

Sponsored by the San Diego and Imperial
Counties Regional Strong Workforce
Program



COMMUNITY COLLEGES

SAN DIEGO & IMPERIAL COUNTIES

CAREER EDUCATION

Welcome Speaker

Adrian Gonzales

Acting President/Vice President
for Student Services, San Diego
Miramar College



Keynote

Lessons Learned from Labor Market Research

Tina Ngo Bartel

Director

San Diego- Imperial Center of Excellence for Labor
Market Research



The Centers of Excellence for Labor Market Research (COE) are the number one source for labor market information for the California Community Colleges.



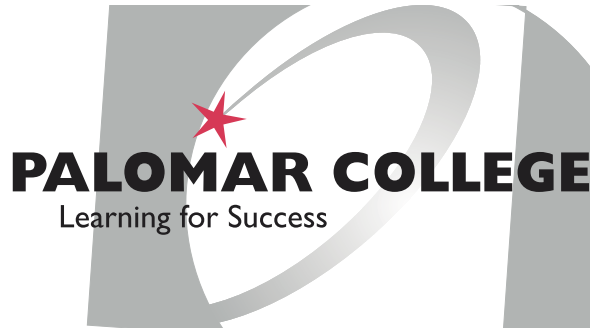
C·O·E

CENTERS OF EXCELLENCE
FOR LABOR MARKET RESEARCH

What is the demand
for jobs?

What is our supply of
qualified workers for
those jobs?





SAN DIEGO
CITY COLLEGE

SAN DIEGO
CONTINUING
EDUCATION



SAN DIEGO
MESA COLLEGE

SAN DIEGO
MIRAMAR
COLLEGE



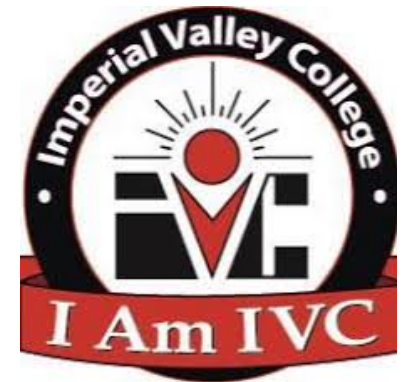
C U Y A M A C A
· C O L L E G E ·



SOUTHWESTERN COLLEGE



G R O S S M O N T
C O L L E G E



COMMUNITY COLLEGES

SAN DIEGO & IMPERIAL COUNTIES

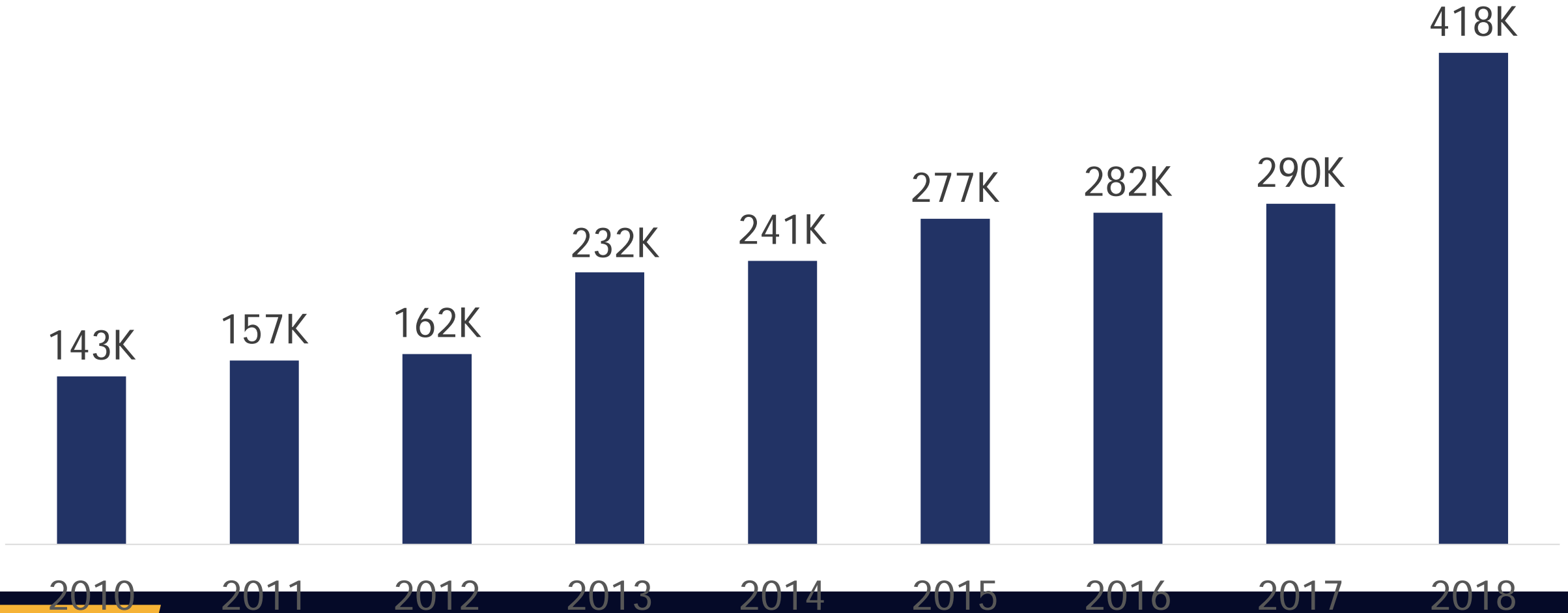
CAREER EDUCATION

Lesson 1:

The talent pipeline matters, and it begins with K12.



Online Job Postings in San Diego County



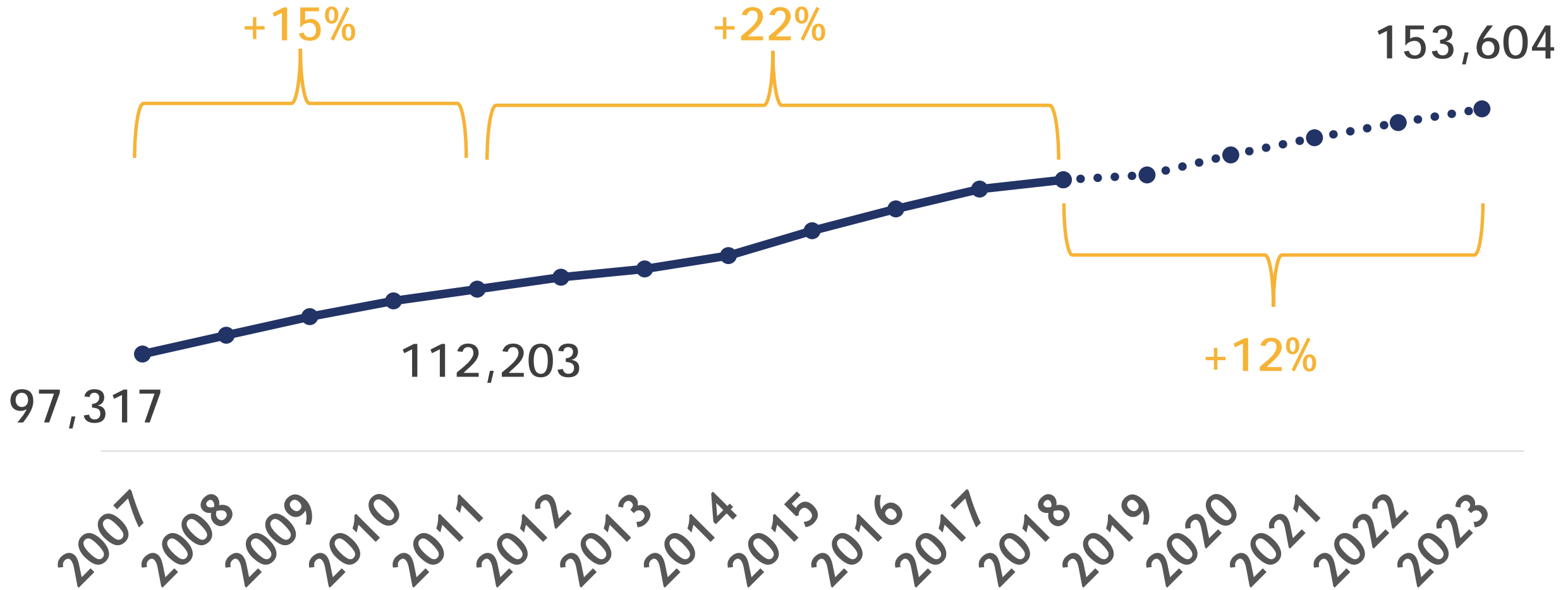
The U.S. has 1 million more job openings than unemployed workers

MARCH 15, 2019 / 6:57 PM / AP

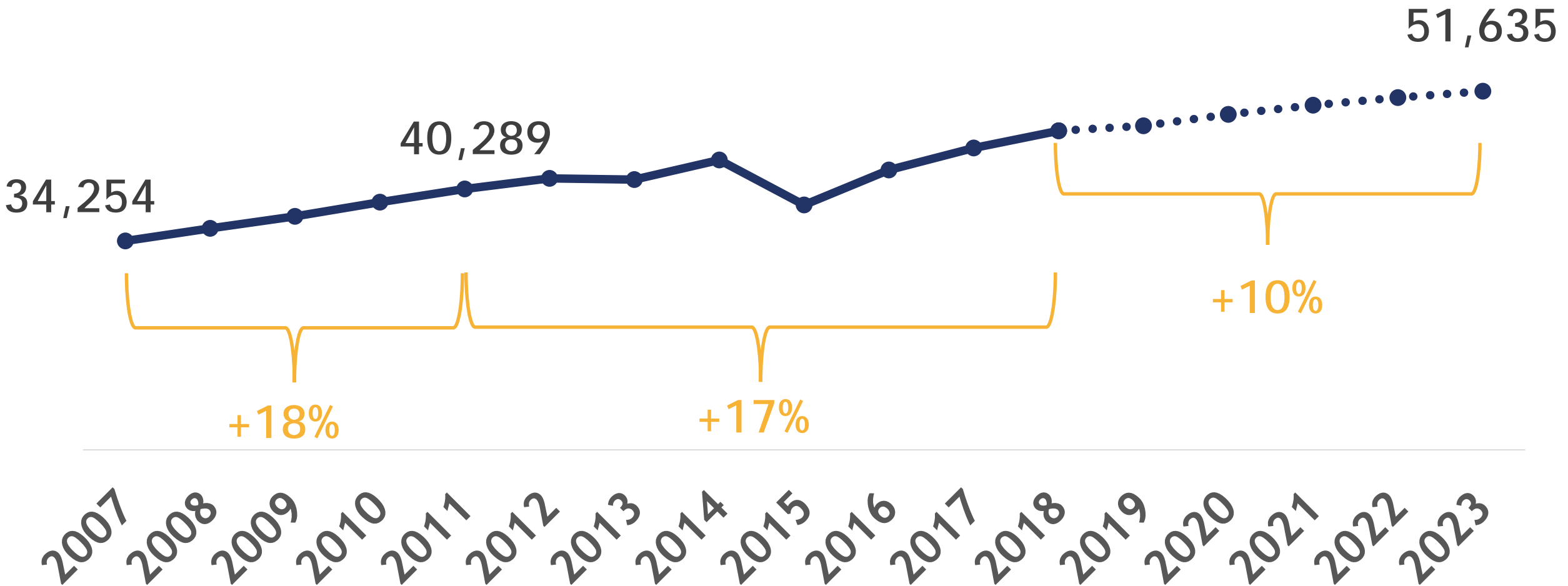


U.S. employers posted nearly 7.6 million open jobs in January, near a record high set in November, a sign that businesses are still hungry for workers despite evidence the economy has slowed. There are now about 1 million more open jobs than unemployed workers.

Health Care Jobs in San Diego County



Life Sciences & Biotech Jobs in SD County



LEARN MORE. EARN MORE.

CAREER EDUCATION GUIDE 2019

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K-12 CROSSWALK

CCCCO SECTORS

Advanced Manufacturing

Advanced Transportation
& Logistics

Agriculture, Water, &
Environmental Technologies

Business &
Entrepreneurship

Energy, Construction,
& Utilities

Global Trade

Health

ICT & Digital Media

Life Sciences &
Biotechnology

CDE PATHWAYS

Manufacturing & Product Design

Transportation

Agriculture & Natural Resources

Business & Finance

Marketing, Sales, & Services

Building & Construction Trades

Energy, Environment, & Utilities

Engineering & Architecture

Health Science & Medical
Technology

Information & Communication
Technologies

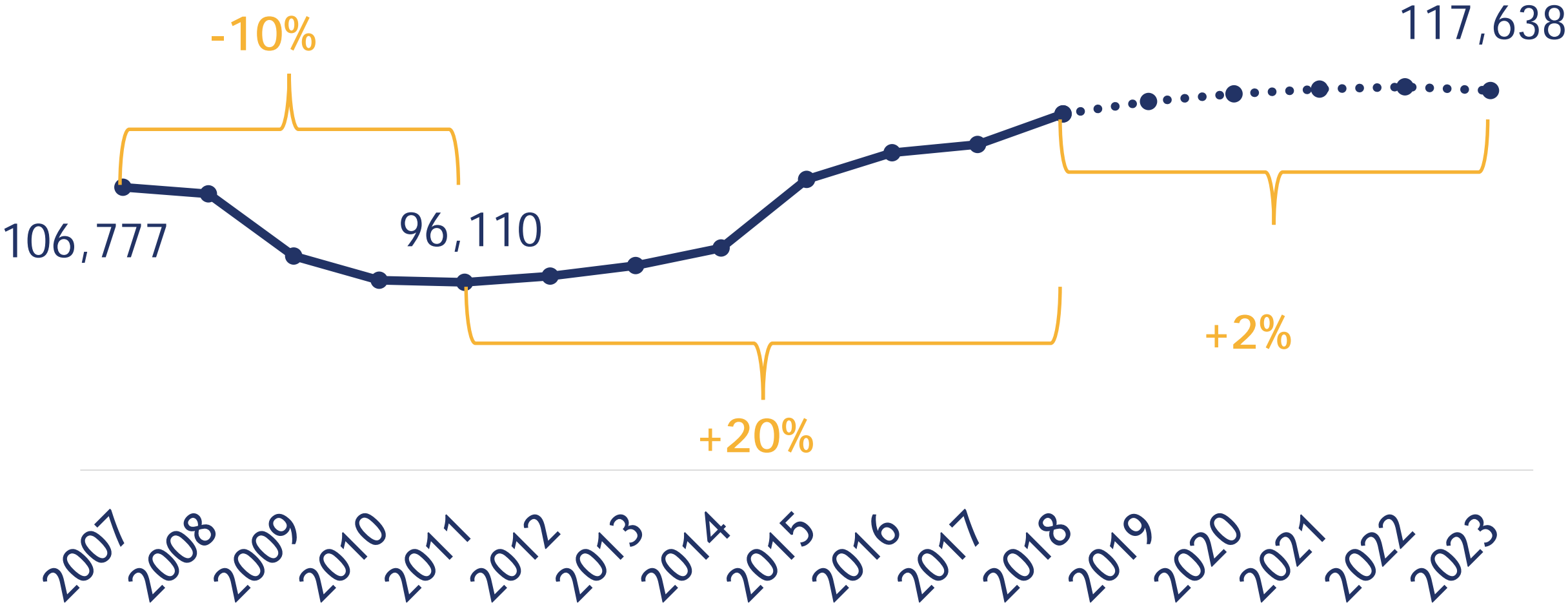
Arts, Media, & Entertainment



What happens when there is not enough enrollment in a program?

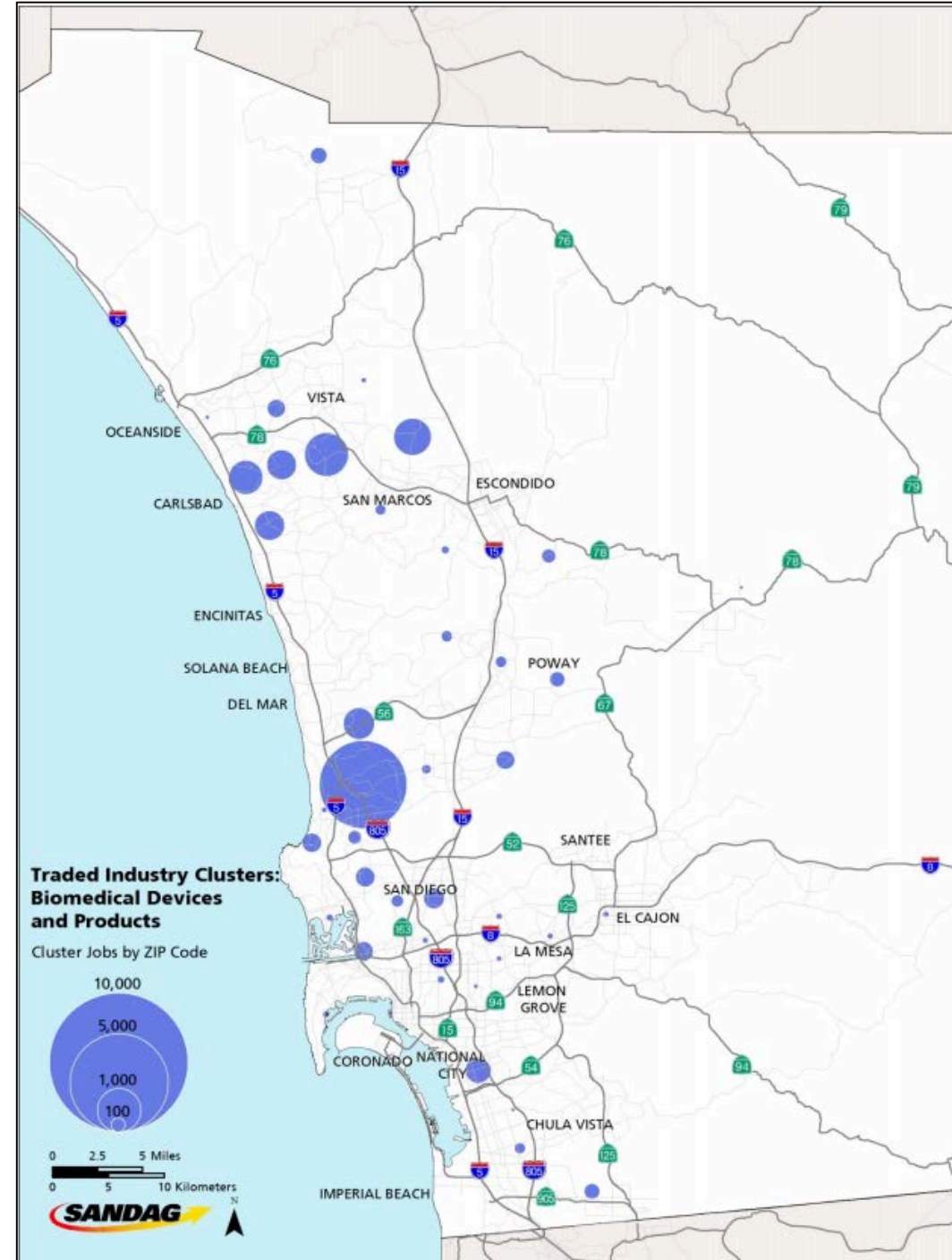
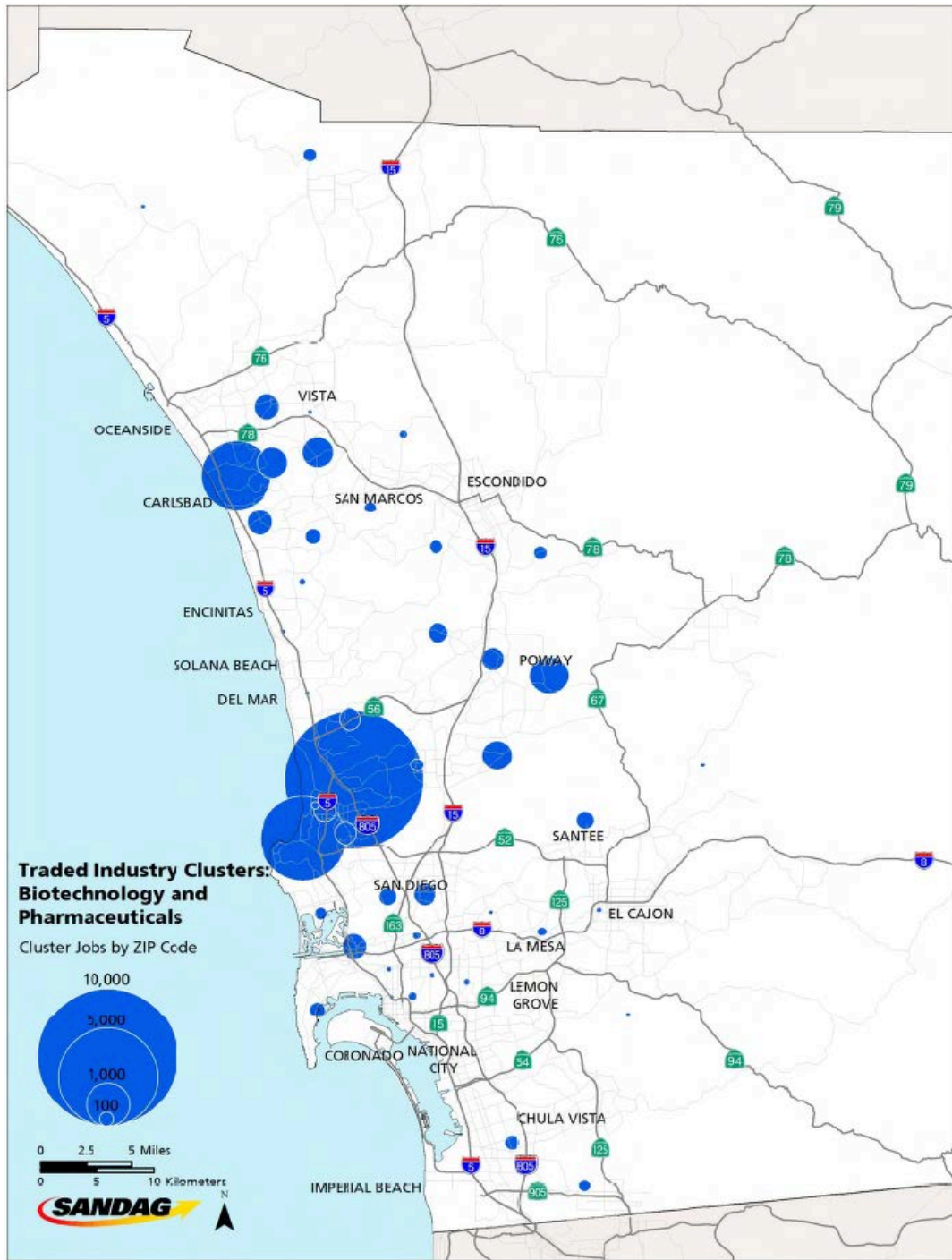


Manufacturing Jobs in San Diego County



Why not expose students to various jobs and careers early?





LEARN MORE. EARN MORE.

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SAN DIEGO & IMPERIAL COUNTIES COMMUNITY COLLEGES



COMMUNITY COLLEGES

SAN DIEGO & IMPERIAL COUNTIES

CAREER EDUCATION

ADVANCED MANUFACTURING

Companies in this sector create products to solve many of today's most challenging problems. High-tech manufacturing (i.e., Advanced Manufacturing) jobs continue to grow, especially in the areas of 3-D printing, and high-speed, computerized numerical control machining. Because robots and automation take care of the repetitive work, today's manufacturing employees have more challenging and interesting job assignments.

Employers in this sector look for technicians who are at ease in the mechanical world and able to apply scientific and technical principles to manufacturing processes. Opportunities for advancement are plentiful as technological advancements make higher-skill jobs in product design, process engineering, operations, maintenance, and lab work more prevalent.



CAREER EDUCATION GUIDE



TRAITS FOR SUCCESS IN THIS SECTOR

Are you interested in...?

- Working with your head and hands to bring product designs to life
- Using mechanical skills to build and maintain heavy machinery
- Learning a practical trade that is in demand no matter where you live
- Understanding how complicated equipment works
- Applying scientific and technical principles to structures and manufacturing processes

Do you...?

- Like to work collaboratively
- Have innovative ideas
- Pay attention to detail
- Have a strong work ethic
- Like to use math and/or machines to solve problems



ADVANCED MANUFACTURING | JOBS & WAGES

The following table lists the minimum educational attainment that an individual needs to have in order to be qualified for the occupation. Wages listed for each occupation are based on 25th percentile to 75th percentile earnings, which represent wages from entry-level to experienced workers, respectively. Only occupations with median earnings of at least \$15.99 per hour (i.e., 1Mng wage) and a labor market demand of at least 50 annual job openings are included in this list. Any job with "All Other" in the title is an occupation with highly specialized subsets; put differently, the title is written broadly to capture various emerging occupations.

HIGH SCHOOL DIPLOMA OR EQUIVALENT + ADDITIONAL TRAINING	
Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	\$15.77 - \$27.54
Cabinetmakers and Bench Carpenters	\$15.79 - \$23.14
Computer-Controlled Machine Tool Operators, Metal and Plastic	\$16.24 - \$27.06
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	\$14.96 - \$22.19
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	\$13.52 - \$20.68
First-Line Supervisors of Production and Operating Workers	\$24.44 - \$40.62
Industrial Machinery Mechanics	\$23.18 - \$31.81
Machinists	\$15.84 - \$26.49
Maintenance and Repair Workers, General	\$15.85 - \$25.00
Mixing and Blending Machine Setters, Operators, and Tenders	\$14.41 - \$23.75
Printing Press Operators	\$12.52 - \$21.72
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	\$14.98 - \$21.42
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Structural Metal Fabricators and Fitters	\$16.66 - \$26.81
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SOME COLLEGE OR POSTSECONDARY NON-DEGREE AWARD	
Aircraft Mechanics and Service Technicians	\$27.04 - \$36.28
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ASSOCIATE DEGREE	
Aerospace Engineering and Operations Technicians	\$25.58 - \$39.70
Civil Engineering Technicians	\$17.56 - \$30.86
Electrical and Electronics Engineering Technicians	\$26.32 - \$41.63
Engineering Technicians, Except Drafters, All Other	\$26.72 - \$43.01
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Mechanical Engineering Technicians	\$20.43 - \$35.91
BACHELOR'S DEGREE OR HIGHER	
Aerospace Engineers	\$39.18 - \$61.60
Civil Engineers	\$31.00 - \$56.50
Computer Hardware Engineers	\$48.73 - \$76.01
Electrical Engineers	\$39.78 - \$58.89
Electronics Engineers, Except Computer Engineers, All Other	\$49.91 - \$74.53
Industrial Engineers	\$40.60 - \$67.31
Industrial Engineers	\$36.57 - \$55.77
Industrial Production Managers*	\$39.16 - \$68.80
Mechanical Engineers	\$36.59 - \$55.95

*Nationally, 33% or more of workers currently employed in this occupation have an associate degree or less.

To explore community college programs in this sector, visit CareerEd.org



ADVANCED MANUFACTURING | JOBS & WAGES

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Engineers, All Other	\$40.60 - \$67.31
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“Google” it

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Welcome to Career Coach

Discover San Diego and Imperial County-based career paths that match your interests.

Take Career Assessment

Take a Career Assessment to learn about yourself and Career Coach will give you career suggestions based on your interests.

Take the Assessment

Browse Careers

Browse or search for careers and we will give you relevant data on wages, employment, and the training you need.

Search for Careers

Or [Browse all Careers](#)

Browse Programs

Browse or search for the available programs that lead to the career you want.

Search for Programs

Or [Browse all Programs](#)

Search Results

5 results found related to "aircraft structures"

Aircraft Structure, Surfaces, Rigging, and Systems Assemblers

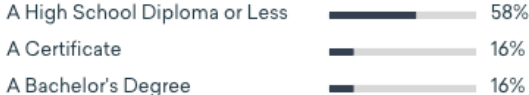
Assemble, fit, fasten, and install parts of airplanes, space vehicles, or missiles, such as tails, wings, fuselage, bulkheads, stabilizers, landing gear, rigging and control equipment, or heating and ventilating systems.



Median Salary
\$43,750



Top Entry-level Education



Save

Aircraft Mechanics and Service Technicians

Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Includes helicopter and aircraft engine specialists.



Median Salary
\$64,752



Top Entry-level Education



Save

Aircraft Mechanics and Service Technicians

♡ Save

Overview

About

Wages

Employment

Live Job Postings

Daily Tasks

- Examine and inspect aircraft components, including landing gear, hydraulic systems, and deicers to locate cracks, breaks, leaks, or other problems.
- Read and interpret maintenance manuals, service bulletins, and other specifications to determine the feasibility and method of repairing or replacing malfunctioning or damaged components.
- Inspect completed work to certify that maintenance meets standards and that aircraft are ready for operation.
- Maintain repair logs, documenting all preventive and corrective aircraft maintenance.
- Conduct routine and special inspections as required by regulations.
- Inspect airframes for wear or other defects.
- Measure parts for wear, using precision instruments.
- Modify aircraft structures, space vehicles, systems, or components, following drawings, schematics, charts, engineering orders, and technical publications.
- Maintain, repair, and rebuild aircraft structures, functional components, and parts, such as wings and fuselage, rigging, hydraulic units, oxygen systems, fuel systems, electrical systems, gaskets, or seals.
- Obtain fuel and oil samples and check them for contamination.
- Replace or repair worn, defective, or damaged components, using hand tools, gauges, and testing equipment.
- Read and interpret pilots' descriptions of problems to diagnose causes.
- Test operation of engines and other systems, using test equipment, such as ignition analyzers, compression checkers, distributor timers, or ammeters.
- Measure the tension of control cables.
- Spread plastic film over areas to be repaired to prevent damage to surrounding areas.

[Overview](#)

[About](#)

[Wages](#)

[Employment](#)

[Live Job Postings](#)

Indeed Job Postings

Aircraft Maintenance (Unmanned, OCONUS)

AEVEX Aerospace Flight Operations | San Diego, CA

Becoming part of the AEVEX Aerospace family means joining a highly qualified and dedicated team that appreciates the opportunities and rewards that come with...

Aircraft Exterior Wash

Accufleet International | San Diego, CA

We are looking for energetic and enthusiastic Aircraft Wash Agents to join our team. The ideal candidates will have an unrestricted driver's license for at...

Line Service Technician - Aircraft Fueler

Circle Air Group | San Diego, CA

Position: AVIATION - LINE SERVICE TECHNICIAN*. Circle Air Group* is the newest full service FBO in San Diego located at Gillespie Field. Who We're looking for*.

Lesson 2: Customization and personalization are the future.





Long Range **\$70,115***

Performance **\$90,115***

Autopilot Included

- Enables your car to steer, accelerate and brake automatically for other vehicles and pedestrians within its lane.

Select Option **\$7,000**

Select Premium Interior



All Black **Included**
Figured Ash Wood Décor

Select Color



Pearl White Multi-Coat **Included**

Select Wheels



19 inch Silver Wheels **Included**



HOW TO GET THE BEST Stitch Fix Box







Why not customize
and personalize
career counseling?



What do you know about your student?

- Interests
- Dislikes
- Volunteer experience
- Extracurricular activities
- “Work” experience

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Or [Browse all Careers](#)

Browse Programs

Browse or search for the available programs that lead to the career you want.

Search for Programs



Or [Browse all Programs](#)

Assessment

Progress



Select your assessment

We'll help you find out what your interests are and how they relate to the world of work.

Quick Start Assessment

6 questions

Detailed Assessment

60 questions

workforce.emsicc.com

Progress



You would like to...

- Work hands-on with objects, machines, tools, plants, or animals
- Work and play outside
- Use your physical or athletic abilities

Strongly Disagree

Disagree

Unsure

Agree

Strongly Agree

California Family Needs Calculator

- \$15.99 per hour for a single adult in San Diego County
- \$31.87 per hour for a single adult + infant
- \$44.74 per hour for a single adult + infant + preschooler
 - These are the minimum wages to cover basic expenses

The “living wage” is dependent on the family size and can be calculated at insightcced.org/2018-family-needs-calculator.

California Family Needs Calculator

- \$21.41 per hour for a single adult + infant
- \$27.57 per hour for a single adult + infant + preschooler
- \$30.43 per hour for a single adult + infant + preschooler + teenager
 - These are the minimum wages to cover basic expenses

The “living wage” is dependent on the family size and can be calculated at insightccd.org/2018-family-needs-calculator.

Lesson 3:

A positive experience results in a significant impact.



IDEO









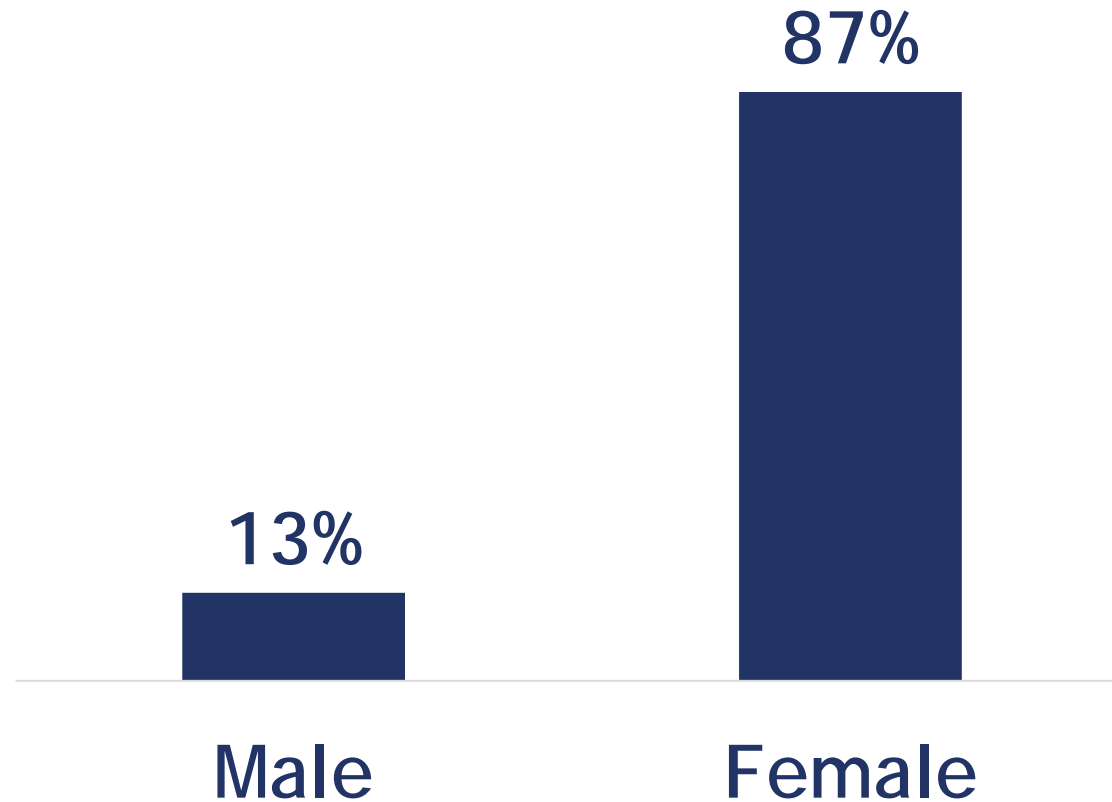
TUTORING NEEDS AND PERCEPTIONS IN CAREER EDUCATION: SAN DIEGO-IMPERIAL

COMMUNITY COLLEGES

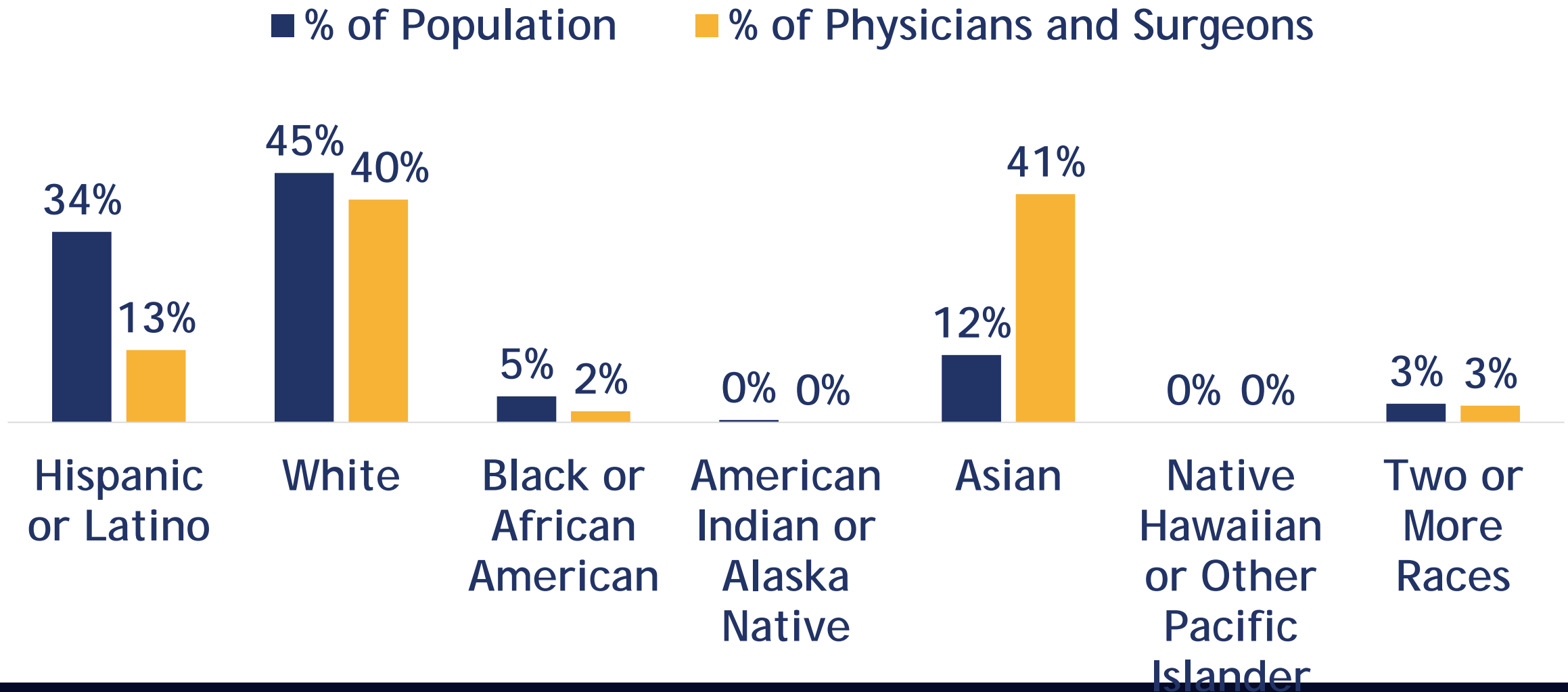
SAN DIEGO & IMPERIAL COUNTIES

CAREER EDUCATION

Registered Nurses in San Diego County



Ethnic Breakdown in San Diego County



Key takeaways

- Talent pipeline
- Customization and personalization
- Experience
- Stay until the end

LEARN MORE. EARN MORE.

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SAN DIEGO & IMPERIAL COUNTIES COMMUNITY COLLEGES



ADVANCED MANUFACTURING | JOBS & WAGES

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THANK YOU

Questions?

myworkforceconnection.org

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LinkedIn: Career Education- San
Diego & Imperial Counties

Conference hashtag: #CounselorCon2019

If you have a sticker
on the back of your
chair.....



...you get to take home the
centerpiece!