

Dietetic Supervisors

Inland Empire/Desert Region (Riverside-San Bernardino-Ontario Metropolitan Statistical Area)

Summary

- Employment for the dietetic supervisor occupational group is expected to **increase by 16% between 2017 and 2022** in the Inland Empire/Desert Region. More than **1,150 job openings** will be available over the five-year timeframe.
- The median wage for each occupation in the dietetic supervisor occupational group is **above the MIT Living Wage estimate of \$12.30 per hour** for a single adult living in the Inland Empire/Desert Region.
- There appears to be an opportunity for program growth based on the average annual number of program completions for the selected community college programs (**20 average annual community college awards**), and the annual openings for dietetic supervisor occupations in the local region (**236 annual job openings**).

Introduction

The dietetic supervisors labor market report details occupations relevant to the dietetic services and management program. This program provides training in institutional food services and the management and supervision of such services, as Dietary Managers, Dietary Service Supervisors, and similar positions in schools, hospitals, nursing facilities, and other non-commercial settings. The occupations included in the dietetic supervisor occupational group are:

- Agricultural and Food Science Technicians
- Dietetic Technicians
- Dietitians and Nutritionists
- Food Scientists and Technologists
- Health Educators

Job Opportunities

In 2017, there were more than 1,900 jobs in the dietetic supervisor occupational group in the Inland Empire/Desert Region. This occupational group is projecting to increase employment 16% by 2022. Employers in the region will need to hire nearly 1,200 workers over the next five years to fill new Dietetic Supervisors in the Inland Empire/Desert Region, May 2018

jobs and backfill jobs that workers are permanently vacating (includes retirements). Appendix A, Table 1 shows the projected job growth, wages, and education, training, and work experience for each of the occupations in this group.

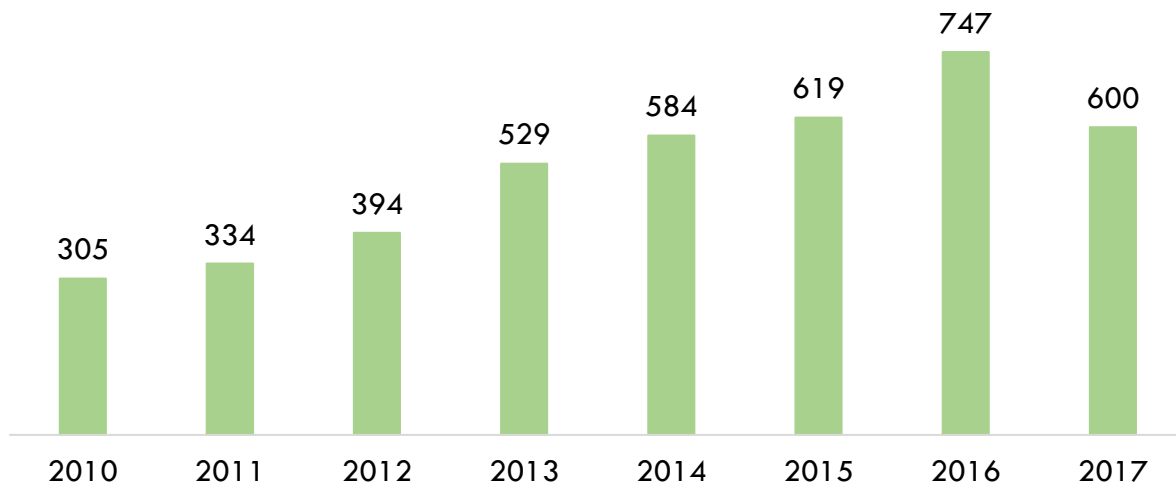
Exhibit 1: Five-year projections for the dietetic supervisor occupational group in the Inland Empire/Desert Region

| Region | 2017 Jobs | 5-Yr % Change (New Jobs) | 5-Yr Openings (New + Replacement Jobs) | Annual Openings (New + Replacement Jobs) | % of workers age 55+ |
|----------------------|-----------|--------------------------|--|--|----------------------|
| Inland Empire/Desert | 1,905 | 16% | 1,178 | 236 | 22% |

Source: EMSI 2018.2

Over the last 12 months (May 2017 to April 2018), there were 588 advertisements (ads) for jobs in the dietetic supervisor occupational group in the Inland Empire/Desert Region. From 2010 to 2017, there was an annual average of 514 job ads per year (Exhibit 2).

Exhibit 2: Number of online job postings for the dietetic supervisor occupational group in the Inland Empire/Desert Region, 2010 to 2017



Source: Burning Glass – Labor Insights

The average time to fill for dietetic supervisor occupations in the Inland Empire/Desert Region is about one week longer than the national average, indicating that it is harder for employers to find qualified local candidates to fill their open positions. Exhibit 3 shows the number of job ads posted during the last 12 months along with the regional and national average time to fill.

Exhibit 3: Job ads by each of the dietetic supervisor occupations in the Inland Empire/Desert Region during the last 12 months and time to fill, May 2017 – Apr 2018

| Occupation | Job Ads | Regional Average Time to Fill (Days) | National Average Time to Fill (Days) |
|---|------------|--------------------------------------|--------------------------------------|
| Dietitians and Nutritionists | 229 | 52 | 38 |
| Health Educators | 176 | 49 | 38 |
| Dietetic Technicians | 164 | 54 | 35 |
| Agricultural and Food Science Technicians | 11 | 35 | 47 |
| Food Scientists and Technologists | 8 | 42 | 43 |
| TOTAL | 588 | - | - |

Source: Burning Glass – Labor Insights

Earnings

The median wage for each of the occupations in the dietetic supervisor occupational group is above the MIT Living Wage estimate of \$12.30 per hour for a single adult living in the Inland Empire/Desert Region. These wages are also sufficient for an adult living in a household with one other working adult and one child (\$14.50 per hour, per adult or \$30,160 annually for each adult). Exhibit 4 displays wage information for this occupational group in the Inland Empire/Desert Region.

Exhibit 4: Earnings for the dietetic supervisor occupational group in the Inland Empire/Desert Region

| Occupation | Entry to Experienced Hourly Earnings Range* | Median Wage* | Average Annual Earnings |
|---|---|--------------|-------------------------|
| Dietitians and Nutritionists | \$28.48 to \$36.83 | \$33.26 | \$65,600 |
| Health Educators | \$22.22 to \$40.19 | \$30.41 | \$68,300 |
| Food Scientists and Technologists | \$17.60 to \$41.52 | \$25.91 | \$62,500 |
| Dietetic Technicians | \$11.62 to \$19.28 | \$14.75 | \$33,700 |
| Agricultural and Food Science Technicians | \$11.43 to \$23.37 | \$14.66 | \$39,200 |

Source: EMSI 2018.2

*Entry Hourly is 25th percentile wage, the median is 50th percentile wage, experienced is 75th percentile wage.

Work Locations, Employers, Skills, and Education

Exhibit 5 displays the top employers posting job ads as well as the top work locations from job ads during the last 12 months.

Exhibit 5: The top employers and work locations for the dietetic supervisor occupational group in the Inland Empire/Desert Region during the last 12 months, May 2017 – Apr 2018

| Occupation | Top Employers | Top Work Locations |
|--|---|---|
| Dietetic Supervisor Occupational Group (n=527) | <ul style="list-style-type: none"> • Loma Linda University Health • Riverside Healthcare • Hemet Unified School District | <ul style="list-style-type: none"> • Loma Linda • Riverside • San Bernardino |

Source: Burning Glass – Labor Insights

Exhibit 6 lists a sample of in-demand specialized and soft skills that employers are seeking when looking for workers to fill dietetic supervisor positions.

Exhibit 6: Sample of in-demand skills from employer job ads for the dietetic supervisor occupational group in the Inland Empire/Desert Region, May 2017 – Apr 2018

| Occupation | Specialized skills | Soft skills | Software and Programming skills |
|--|--|--|--|
| Dietitians and Nutritionists (n=189) | <ul style="list-style-type: none"> • Patient/Family Education and Instruction • Patient Care • Treatment Planning | <ul style="list-style-type: none"> • English • Communication Skills • Computer Literacy | <ul style="list-style-type: none"> • Microsoft Office |
| Health Educators (n=159) | <ul style="list-style-type: none"> • Teaching • Staff Development • Advanced Cardiac Life Support (ACLS) | <ul style="list-style-type: none"> • Communication Skills • English • Teamwork/ Collaboration | <ul style="list-style-type: none"> • Microsoft Office |
| Dietetic Technicians (n=111) | <ul style="list-style-type: none"> • Nutrition Services • Food Preparation • Teaching | <ul style="list-style-type: none"> • English • Building Effective Relationships • Detail-Oriented | <ul style="list-style-type: none"> • N/A |
| Agricultural and Food Science Technicians (n=10) | <ul style="list-style-type: none"> • Quality Assurance and Control • Packaging • Good Manufacturing Practices (GMP) | <ul style="list-style-type: none"> • Written Communication • Research • Problem Solving | <ul style="list-style-type: none"> • Microsoft Office |
| Food Scientists and Technologists (n=8) | <ul style="list-style-type: none"> • Food Safety/Science • Quality Assurance and Control • Chemistry | <ul style="list-style-type: none"> • Communication Skills • Troubleshooting • Computer Literacy | <ul style="list-style-type: none"> • Microsoft Office |

Source: Burning Glass – Labor Insights

Exhibit 7 displays the entry-level education level education typically required to enter each occupation according to the Bureau of Labor Statistics, educational attainment for incumbent workers with “some college, no degree” and an “associate degree” according to the U.S. Census, and the minimum advertised education requirement requested by employers in online job ads.

Exhibit 7: Educational attainment and online job ads with minimum advertised education requirements for the dietetic supervisor occupational group in the Inland Empire/Desert Region, May 2017 – Apr 2018

| Occupation | Typical Entry-Level Education Requirement | Educational Attainment* | Minimum Advertised Education Requirement from Job Ads | | | |
|---|---|-------------------------|---|--|------------------|-----------------------------|
| | | | Number of Job Postings (n=) | High school diploma or vocational training | Associate degree | Bachelor's degree or higher |
| Dietitians and Nutritionists | Bachelor's degree | 14% | 114 | - | - | 100% |
| Health Educators | Bachelor's degree | 29% | 135 | - | 22% | 78% |
| Dietetic Technicians | Associate degree | 56% | 104 | 86% | 14% | - |
| Agricultural and Food Science Technicians | Associate degree | 39% | 4 | 50% | - | 50% |
| Food Scientists and Technologists | Bachelor's degree | 0% | 8 | - | - | 100% |

Source: EMSI 2018.2, Burning Glass – Labor Insights

*Percentage of incumbent workers with a Community College Award or Some Postsecondary Coursework

Industry

Staffing patterns show the industries that employ the most workers of a specific occupation. Exhibit 8 displays the industries that hire dietetic supervisor occupations in the two-county region.

Exhibit 8: Top industries employing dietetic supervisor occupations in the Inland Empire/Desert Region, May 2017 – Apr 2018

| Occupation | Top Industries from Staffing Pattern (NAICS) - % of occupation employed in industry | Industry Classification from Job Ads | |
|---|--|--------------------------------------|--|
| | | Number of Job Postings (n=) | Top Industries from Job Ads (NAICS) |
| Dietitians and Nutritionists | <ul style="list-style-type: none"> Outpatient Care Centers (6214) 23% General Medical and Surgical Hospitals (6221) 17% | 173 | <ul style="list-style-type: none"> General Medical and Surgical Hospitals (6221) Outpatient Care Centers (6214) |
| Health Educators | <ul style="list-style-type: none"> Outpatient Care Centers (6214) 18% General Medical and Surgical Hospitals (6221) 16% | 150 | <ul style="list-style-type: none"> General Medical and Surgical Hospitals (6221) Colleges, Universities, and Professional Schools (6113) |
| Dietetic Technicians | <ul style="list-style-type: none"> General Medical and Surgical Hospitals (6221) 27% Nursing Care Facilities (Skilled Nursing Facilities) (6231) 25% | 154 | <ul style="list-style-type: none"> Elementary and Secondary Schools (6111) General Medical and Surgical Hospitals (6221) |
| Agricultural and Food Science Technicians | <ul style="list-style-type: none"> Education and Hospitals (State Government) (9026) 19% Crop Production (1110) 12% | 2 | <ul style="list-style-type: none"> Office of Physicians (6211) Beverage Manufacturing (3121) |
| Food Scientists and Technologists | <ul style="list-style-type: none"> Other Food Manufacturing (3119) 22% Management of Companies and Enterprises (5511) 12% | 3 | <ul style="list-style-type: none"> Sugar and Confectionery Product Manufacturing (3113) Other Food Manufacturing (3119) |

Source: EMSI 2018.2, Burning Glass – Labor Insights

Student Completions

Exhibits 9 & 10 show the annual average regional community college awards (associate degrees and certificates) conferred during the three academic years between 2014 and 2017, with the relevant TOP code as well as the program title used at each college, sourced from the Chancellor’s Office Curriculum Inventory (COCI). Please note, an award is not equivalent to a single person in search of a job opening since a student may earn more than one award, such as an associate degree in addition to a certificate. Community College student outcome information was obtained from the CTE LaunchBoard based on the selected TOP code(s) and region.

Exhibit 9: Annual average community college student completions for nutrition, foods, and culinary arts programs in the Inland Empire/Desert Region

| 1306.00 – Nutrition, Foods, and Culinary Arts | Annual Community College Headcount (2016-17) | Community College Annual Average Awards (2014-17) |
|--|---|--|
| Barstow – Culinary Arts | 7 | |
| Chaffey – Nutrition and Food/Nutrition and Dietetics for Transfer | 248 | |
| Associate Degree | | 8 |
| Certificate 18 to < 30 semester units | | 2 |
| Copper Mountain | 35 | |
| Mt. San Jacinto | 1,183 | |
| San Bernardino | 391 | |
| Victor Valley | 18 | |
| Total Community College Headcount (2016-17) | 1,882 | |
| Total Annual Average Community College Awards | | 10 |

Source: LaunchBoard, IPEDS, COCI

1306.00 Nutrition, Foods, and Culinary Arts program Strong Workforce outcomes in the Inland Empire/Desert Region in the academic year 2015-16 [unless noted otherwise]:

- Number of course enrollments: 1,954 (California median: 8,395) [2016-17]
- Number of students who transferred to a 4-year institution: 141 (CA: 603)
- Employed in the second fiscal quarter after exit: 66% (CA: 68%)
- Median earnings in the second fiscal quarter after exit: \$6,489 (CA: \$6,489)
- Employed in the fourth fiscal quarter after exit: 64% (CA: 68%)
- Median annual earnings: \$24,487 (CA: \$21,292)
- The percentage in a job closely related to the field of study: Insf. data (CA: 69%) [2014-15]
- Median change in earnings: 56% (CA: 56%)
- The proportion of students who attained a living wage: 35% (CA: 42%)

Exhibit 10: Annual average community college student completions for dietetic services and management programs in the Inland Empire/Desert Region

| 1306.20 – Dietetic Services and Management | Annual Community College Headcount (2015-16)* | Community College Annual Average Awards (2014-17) |
|--|--|--|
| Chaffey – Dietetic Service Supervisor | 14 | |
| Certificate 18 to < 30 semester units | | 9 |
| San Bernardino – Dietetic Service Supervisor/Dietetics Technician/Dietetic Aide | 11 | |
| Certificate 18 to < 30 semester units | | 2 |
| Total Community College Headcount (2015-16) | 25 | |
| Total Annual Average Community College Awards | | 10 |

Source: LaunchBoard, IPEDS, COCI

*No headcount information available for the academic year 2016-17

1306.20 Dietetic Services and Management program Strong Workforce outcomes in the Inland Empire/Desert Region in the academic year 2015-16 [unless noted otherwise]:



- Number of course enrollments: Insf. data (California median: 207) [2016-17]
- Number of students who transferred to a 4-year institution: 0 (CA: 14)
- Employed in the second fiscal quarter after exit: 95% (CA: 75%)
- Median earnings in the second fiscal quarter after exit: \$6,470 (CA: \$8,812)
- Employed in the fourth fiscal quarter after exit: 95% (CA: 77%)
- Median annual earnings: \$24,487 (CA: \$21,292)
- The percentage in a job closely related to the field of study: 100% (CA: 100%) [2014-15]
- Median change in earnings: 53% (CA: 50%)
- The proportion of students who attained a living wage: 74% (CA: 62%)

Sources

O*Net Online

Labor Insight/Jobs (Burning Glass)

Economic Modeling Specialists International (EMSI)

CTE LaunchBoard

MIT Living Wage Calculator

Chancellor's Office Curriculum Inventory (COCI, version 2.0)

The Integrated Postsecondary Education Data System (IPEDS)

Michael Goss, Director

Center of Excellence, Inland Empire/Desert Region

michael.goss@chaffey.edu

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Appendix A: Occupation definitions, sample job titles, five-year projections, and earnings for dietetic supervisor occupations

Occupation Definitions (SOC code), Education and Training Requirement, Community College Education Attainment

Food Scientists and Technologists (19-1012)

Use chemistry, microbiology, engineering, and other sciences to study the principles underlying the processing and deterioration of foods; analyze food content to determine levels of vitamins, fat, sugar, and protein; discover new food sources; research ways to make processed foods safe, palatable, and healthful; and apply food science knowledge to determine best ways to process, package, preserve, store, and distribute food.

Sample job titles: Food and Drug Research Scientist, Food Chemist, Food Scientist, Food Technologist, Product Development Scientist, Quality Control Inspector (QC Inspector), Research Chef, Research Food Technologist, Research Scientist, Seafood Technology Specialist

Entry-Level Educational Requirement: Bachelor's degree

Training Requirement: None

Percentage of incumbent workers with a Community College Award or Some Postsecondary Coursework: 0%



Agricultural and Food Science Technicians (19-4011)

Work with agricultural and food scientists in food, fiber, and animal research, production, and processing; and assist with animal breeding and nutrition. Conduct tests and experiments to improve yield and quality of crops or to increase the resistance of plants and animals to disease or insects. Includes technicians who assist food scientists or technologists in the research and development of production technology, quality control, packaging, processing, and use of foods.

Sample job titles: Agricultural Research Technician, Agricultural Research Technologist, Agricultural Technician, Laboratory Technician (Lab Tech), Research Assistant, Research Associate, Research Specialist, Research Technician, Seed Analyst, Senior Agricultural Assistant, Central Lab Technician (CLT), Food Science Technician, Lab Tech (Laboratory Technician), Laboratory Assistant (Lab Assistant), Operations Technician, Quality Analyst, Quality Assurance Analyst (QA Analyst), Quality Control Technician (QC Technician), Quality Technician, Technical Services Analyst

Entry-Level Educational Requirement: Associate degree

Training Requirement: One to twelve months on-the-job training

Percentage of incumbent workers with a Community College Award or Some Postsecondary Coursework: 39%

Health Educators (21-1091)

Provide and manage health education programs that help individuals, families, and their communities maximize and maintain healthy lifestyles. Collect and analyze data to identify community needs prior to planning, implementing, monitoring, and evaluating programs designed to encourage healthy lifestyles, policies, and environments. May serve as a resource to assist individuals, other healthcare workers, or the community, and may administer fiscal resources for health education programs.

Sample job titles: Certified Diabetes Educator, Child Development Specialist, Clinical Instructor, Clinical Nurse Educator, Community Health Consultant, Community Health Education Coordinator, Education Coordinator, Health Educator, Health Promotion Specialist, Public Health Educator

Entry-Level Educational Requirement: Bachelor's degree

Training Requirement: None

Percentage of incumbent workers with a Community College Award or Some Postsecondary Coursework: 29%



Dietitians and Nutritionists (29-1031)

Plan and conduct food service or nutritional programs to assist in the promotion of health and control of disease. May supervise activities of a department providing quantity food services, counsel individuals, or conduct nutritional research.

Sample job titles: Clinical Dietician, Clinical Dietitian, Correctional Food Service Supervisor, Dietary Manager, Dietitian, Nutritionist, Outpatient Dietitian, Pediatric Clinical Dietician, Registered Dietician, Registered Dietitian

Entry-Level Educational Requirement: Bachelor's degree

Training Requirement: Internship/Residency

Percentage of incumbent workers with a Community College Award or Some Postsecondary Coursework: 14%

Dietetic Technicians (29-2051)

Assist in the provision of food service and nutritional programs, under the supervision of a dietitian. May plan and produce meals based on established guidelines, teach principles of food and nutrition, or counsel individuals.

Sample job titles: Certified Dietary Manager (CDM), Cook Chill Technician (CCT), Diet Assistant, Diet Clerk, Diet Tech (Diet Technician), Diet Tech (Dietetic Technician), Diet Technician Registered (DTR), Dietary Aide, Dietary Aide, Dietary Manager

Entry-Level Educational Requirement: Associate degree

Training Requirement: None

Percentage of incumbent workers with a Community College Award or Some Postsecondary Coursework: 56%



Table 1. 2017 to 2022 job growth, wages, and education, training, and work experience required for the dietetic supervisor occupational group, Inland Empire/Desert Region

| Occupation (SOC) | 2017 Jobs | 5-Yr Change | 5-Yr % Change | Annual Openings (New + Replacement Jobs) | Entry-Experienced Hourly Wage* | Median Hourly Wage* | Typical Entry-Level Education & On-The-Job Training Required | Work Experience Required |
|---|--------------|-------------|---------------|--|--------------------------------|---------------------|--|--------------------------|
| Dietitians and Nutritionists (29-1031) | 781 | 152 | 19% | 82 | \$28.48 to \$36.83 | \$33.26 | Bachelor's degree & Internship/Residency | None |
| Health Educators (21-1091) | 469 | 97 | 21% | 81 | \$22.22 to \$40.19 | \$30.41 | Bachelor's degree & none | None |
| Dietetic Technicians (29-2051) | 279 | 40 | 14% | 31 | \$11.62 to \$19.28 | \$14.75 | Associate degree & none | None |
| Food Scientists and Technologists (19-1012) | 208 | 13 | 6% | 24 | \$17.60 to \$41.52 | \$25.91 | Bachelor's degree & none | None |
| Agricultural and Food Science Technicians (19-4011) | 169 | 7 | 4% | 18 | \$11.43 to \$23.37 | \$14.66 | Associate degree & 1 to 12 months | None |
| Total | 1,905 | 310 | 16% | 236 | - | - | - | - |

Source: EMSI 2018.2 *Entry Hourly is 25th percentile wage, the median is 50th percentile wage, experienced is 75th percentile wage.