

# EMSI



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## Program Report



Economic Modeling Specialists, Inc. [www.economicmodeling.com](http://www.economicmodeling.com)

# EMSI

## Region Info

Region: San Francisco larger MSA

County Areas: Alameda, California (6001), Contra Costa, California (6013), Marin, California (6041), San Francisco, California (6075), San Mateo, California (6081), Santa Clara, California (6085)

## Executive Summary

Program
Biotechnology and Biomedical Technology (TOP 0430.00)

Program Occupations
Biological technicians (SOC 19-4021)

Summary	
2008 Occupational Jobs	3,922
2013 Occupational Jobs	4,555
Total Change	633
Total % Change	16%
2009 Median Hourly Earnings/Worker	\$22.16
Annual Openings	268
Total Replacement Jobs	705

Source: EMSI Complete Employment - Spring 2009

## Occupational Breakdown

SOC Code	Description	2008 Jobs	2013 Jobs	Annual Openings	Replacement Jobs	Hourly Earnings	Education Level
19-4021	Biological technicians	3,922	4,555	268	705	\$22.16	Associate's degree
	Total	3,922	4,555	268	705	\$22.16	

Source: EMSI Complete Employment - Spring 2009

## Occupational Change

SOC Code	Description	Regional Change	Regional % Change	State % Change	National % Change
19-4021	Biological technicians	633	16%	15%	11%

Source: EMSI Complete Employment - Spring 2009

## Occupation Distribution



County	2008 Jobs
San Mateo, CA (6081)	1,237
Santa Clara, CA (6085)	1,053
Alameda, CA (6001)	732
San Francisco, CA (6075)	691
Contra Costa, CA (6013)	105
Marin, CA (6041)	103

Source: EMSI Complete Employment - Spring 2009

## Data Sources and Calculations

### Occupation Data

Organizing regional employment information by occupation provides a workforce-oriented view of the regional economy. EMSI's occupation data are based on EMSI's industry data and regional staffing patterns taken from the Occupational Employment Statistics program (U.S. Bureau of Labor Statistics). Wage information is partially derived from the American Community Survey. The occupation-to-program (SOC-to-CIP) crosswalk is based on one from the U.S. Department of Education, with customizations by EMSI.

### State Data Sources

This report uses state data from the following agencies: California Labor Market Information Department.