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**Physician Assistants.** This is the 16th fastest growing profession in California among all occupations requiring a bachelor’s degree or higher. Physician assistants held 4,000 jobs in 2002; that number is projected to grow to 6,200 in 2012, a 41 percent increase. Demand will be strong for P.A.s, particularly in places that have difficulty attracting physicians, such as rural areas and inner city clinics. In addition, physicians and institutions are expected to employ more P.A.s to provide primary care and assist with medical and surgical procedures. Nationally, the number of physician assistants is expected to grow by 49 percent. Over 4,000 new physician assistants will be needed each year. Median annual earnings of physician assistants in California were $60,450 in 2004; the top 10 percent earned $113,040 and up (nationally, that figure was $94,840).

**Pharmacists.** In California, pharmacists held 20,700 jobs in 2002, a number slated to jump to 27,500 in 2012, a 33 percent increase. Competition for pharmacists is expected to be steep over the 2002-12 period due to the increased pharmaceutical needs of a larger and older population. In addition, the number of degrees granted in pharmacy is expected to be lower than the number of job openings created by employment growth and replacement needs. Nationally, the number of pharmacists is expected to grow by 30 percent.

Mediain annual earnings of California’s pharmacists in 2004 were $103,110, the top 10 percent earned $120,720 and up (nationally, that figure was $112,530).

**The Regional Outlook**

Seven of the top 10 states in terms of projected job growth are in the West: Nevada, Utah, Idaho, Arizona, Colorado, New Mexico, and California. In the 15 WICHE states, an additional 5.9 million jobs will be added in the decade leading up to 2012. While California has the greatest numerical growth in the region, with some 270,000 new jobs being created each year, the states seeing the fastest job growth are Nevada (41 percent), Utah (31 percent), Idaho (24 percent), and Arizona and Colorado (23 percent). Most of the region’s fastest growing professions are in the health and computer sectors.

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Higher Education & the Workforce

In 2006 a good education is no longer just a way to an individual to get ahead. It is also, and increasingly, the best way a state can get ahead — and therefore a real economic priority. A college degree confers specific, calculable benefits on a state’s citizens: the average lifetime income of an individual with a bachelor’s degree is $2.1 million, compared to $1.2 million for those with just a high school diploma. But the benefits realized by the state are just as impressive as those that an individual sees. Not only does a state with a well-educated populace see increased tax revenues from its (better-paid) citizens, it is also able to use the education level of its citizens as a powerful lure for business and industry — a way to build its economy overall.

For that to happen, however, a state must make sure that all of its citizens have access to a college education. Businesses are no longer simply looking for a small, well-educated elite but instead need to be able to draw upon a labor pool that’s both broadly educated and diverse. In fact, a report from the Business-Higher Education Forum, a coalition that includes some of the country’s top corporate CEOs, states that an educated and diverse population is an essential competitive asset in today’s global economy.

In California, the nation’s most populous state, the demand for well-educated employees will only increase over the next several years. In the decade leading up to 2012, healthcare occupations will see growth of 28 percent, over 150,000 new practitioners and technicians will be needed. Teachers will be in high demand: over a quarter million new educators (including librarians) will need to be hired. Managers will see their ranks swell by 21 percent, when you add in retirements, over 31,000 openings will need to be filled each year. The growth in these sectors is good news for California’s citizens, since wages for jobs in these areas are higher than the average for California in general. But entry into these jobs comes with a price tag: most positions in these fields will require a bachelor’s degree or higher. The question for California and other states is how, in a time of tight budgets, to meet the increasing demands on higher education and thereby meet the needs of an increasingly sophisticated economy.

The Western Interstate Commission for Higher Education (WICHE) has had workforce issues at the top of its agenda since its creation in the 1950s. In fact, WICHE was launched specifically to address the shortage of workforce-training opportunities in medicine, dentistry, and other professional fields. Today, WICHE offers a slew of undergraduate, graduate, and professional options that help the West’s states educate and train their citizens, building their economies in the process.

California’s Occupational Outlook

Employment in California (including hourly and salaried jobs and self-employment) is projected to grow by 17,149,500. The rate of growth is higher than the increase projected for the nation as a whole (15 percent).

Growth will occur in most sectors of California’s economy (some exceptions: mining and certain manufacturing sectors), with the largest number of new jobs occurring in lower-paying fields such as retail sales and food service. However, all of California’s “top jobs” — those with the fastest growth rate and highest earnings — are professional positions (see Table 1).

---

**Table 1. California’s Top Jobs**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Network Systems Analyst</th>
<th>Physical Therapists</th>
<th>Database Administrators</th>
<th>Personal Fin. Advisors</th>
<th>Respiratory Therapists</th>
<th>Epidemiologists</th>
<th>Computer Software Engineers</th>
<th>Dental Hygienists</th>
<th>Environmental Engineers</th>
<th>Occupational Therapists</th>
<th>Physician Assistants</th>
<th>Chiropractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median Earnings ($300,000)</td>
<td>$90,000</td>
<td>$75,000</td>
<td>$90,000</td>
<td>$75,000</td>
<td>$90,000</td>
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</tr>
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* Jobs with the strongest employment outlook (2002-12) and with earnings in the top quartile.

Source: California Employment Development Department.

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May 2006
California is seeing significant growth in its older population: in 2003, positions will open up. Dental hygienists, whose ranks are the second
Pharmacists will log growth of 33 percent – 6,800 new pharmacist
while occupational therapists’ numbers will grow by 41 percent.
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One qua
advanced degree.
chiropractor, and personal financial advisor) demand a bachelors or
occupational therapist, physical therapist, physician assistant,
A.A.; the remainder (network system analyst, epidemiologist, computer
students enrolled in WUE in 2005, saving over $8.7
million and working toward degrees in fields that are
essential to California’s economy. Some of the most
popular fields of study for California students: biology, business,
linkages, psychology, and political science.

Bache’s Program (PSEP) offers students opportunities to train outside of their
home state in 14 highly competitive fields: architecture, dentistry, graduate library studies, medicine, nursing,
ocupational therapy, optometry, osteopathic medicine, pharmacy, physical therapy, physician assistant, podiatry,
public health, and veterinary medicine. In California, employment projections in all these fields are on the
rise (see Table 2). California students do not currently participate in this program.

The Western Regional Graduate Program (WRGP) offers students the chance to engage in graduate studies and
includes 175 distinctive programs in 14 states, such as education, construction management, nursing, and business. On the horizon is a distance learning option, NEON (the Northwest Educational Outreach Network), which will provide electronically delivered degree programs in high-demand disciplines, such as a Ph.D. in nursing and a graduate certificate in supply chain management. California students do not currently participate in this program.

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Source: California Employment Development Department.

California Professional Employment Projections, 2002-2012

6 Fast-Track Fields

The Outlook for California & the Nation

From 2002 to 2012, the economy in California and the nation will continue generating jobs for workers at all levels of education and training. But there will be an increasing demand for employees with at least some postsecondary education, preferably a bachelor’s degree. Nationally, during a decade that will witness large numbers of baby boomers moving into retirement, 21.4 million new jobs will be created, an increase of 15 percent. However, in some fields, the increase will be more than triple that. Across the country, competition will be especially stiff for physicians, who will see their ranks grow by 49 percent, as well as for physical and occupational therapists (whose fields will experience growth of 35 percent) and pharmacists (30 percent). More than 620,000 new nurses will be needed (an increase of 27 percent) and some 14,500 new veterinarians. Below is a debriefing that focuses on trends in some of California’s—and the nation’s—fast-growing professions.

Registered Nurses. When it comes to occupations with the largest growth, nursing is number four in California, but among occupations requiring some postsecondary education, it’s number one. Working in the largest healthcare profession, registered nurses held 201,600 jobs in 2002 in California; that number will grow to 258,400 by 2012, a 28 percent increase. Demand for R.N.s is expected to be high for a number of reasons, including the need to replace experienced nurses who leave the field, especially as the median age of the RN population continues to rise; a growing elderly population; and an imbalance between the supply of and demand for qualified R.N.s. Nationally, employment of registered nurses is expected to grow by 27 percent in the decade leading up to 2012. Median annual earnings of registered nurses were $67,660 in 2004; the top 10 percent earned $93,260 and up (nationally, that number was $77,170).

Teachers. When it comes to the number of new hires, teaching is one of the top professions among occupations requiring a bachelor’s degree. Primary, secondary, and special ed teachers held 451,000 jobs in 2002 in California, that number will grow to 539,700 by 2012, a 20 percent increase. In the decade leading up to 2012, California will also have to find 63,200 new postsecondary teachers for its colleges and universities. In addition, it will have to hire almost 135,900 educators at all levels to cover retirements and separations. Nationally, the demand for teachers will vary, ranging from 38 percent for postsecondary teachers down to 9 percent for middle school teachers. Median annual earnings ranged from $51,920 for the state’s primary teachers to $55,990 for secondary in 2004; the top 10 percent earned $72,190 and $79,780 and up, respectively (nationally, those figures were $68,930 and $72,110).

Physical Therapists. This is the fifth fastest growing profession among all occupations requiring a bachelor’s degree or higher in California. Physical therapists held 11,200 jobs in 2002, a number that
All the top jobs listed on Table 1 demand considerable education and training. Two (dental hygienist and respiratory therapist) require an A.A.; the remainder (network system analyst, epidemiologist, computer software engineer, environmental engineer, database administrator, occupational therapist, physical therapist, physician assistant, chiropractor, and personal financial advisor) demand a bachelors or advanced degree.

One quarter of California’s top jobs are in a field related to computers: computer specialists’ ranks are slated to grow by 59 percent, with nearly 130,000 new hires anticipated. Strikingly, more than half of California’s top jobs are health related. Some 92,700 new M.D.s., dentists, veterinarians, and other health practitioners will need to be hired. The demand for registered nurses will see a 28 percent increase — about 56,800 new R.N.s will be needed in the state, when retirements and other separations are factored in, that number grows to a whopping 99,000. Physician assistants will see a 41 percent increase in their ranks, with some 180 being hired every year to fill new positions. Physical therapists will experience a 43 percent increase, while occupational therapists’ numbers will grow by 41 percent. Pharmacists will log growth of 33 percent — 6,800 new pharmacist hires are anticipated. Strikingly, more than half of computer specialists’ ranks are slated to grow by 34 percent, with an advanced degree.

All professions are slated to grow by 27 percent) and some 14,500 new veterinarians. Below is a debriefing of the most significant growth in its older population: in 2003, 14 percent of its citizens were over 60 — over 5 million in all, more than in any other state.

Two other essential professionals, managers and teachers, will also see a large number of hires in the decade leading up to 2012, due to new job creation and the need for replacement workers. Over 67,000 new managers of all types — from CEOs and operations managers to supervisors — will be required to help run the state’s various enterprises. Large numbers of teachers at every level from kindergarten through college will be needed in California. At the primary and secondary levels, over 62,000 new jobs will be created, with the biggest chunk (over 31,000) slated for elementary school teachers. Over 63,000 new slots in postsecondary education are projected to open up during the decade.

As California’s economy changes, so do the kinds of jobs available to Californians. The projections indicate that plenty of jobs will be available for those without formal training beyond high school. However, wages in most of the jobs in the sectors hiring those workers — retail sales and food service are two of the biggest — fall considerably short of what can be considered living wages. Over the next several years, workers who have the most education and training will have the best opportunity for high-paying jobs in growing sectors. In addition, a number of professions requiring education beyond the bachelor’s degree are projected to see moderate to strong growth (see Table 2).

Table 2
California Professional Employment Projections, 2002-2012

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WICHE: California’s Top Jobs*

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