
Dentists

(O*NET 29-1021.00, 29-1022.00, 29-1023.00, 29-1024.00, 29-1029.99)

Significant Points

- Most dentists are solo practitioners.
- Dentists usually complete at least 8 years of education beyond high school.
- Average employment growth will generate some job openings, but most openings will result from the need to replace the large number of dentists expected to retire.
- Job prospects should be good.

Nature of the Work

Dentists diagnose and treat problems with teeth and tissues in the mouth, along with giving advice and administering care to help prevent future problems. They provide instruction on diet, brushing, flossing, the use of fluorides, and other aspects of dental care. They remove tooth decay, fill cavities, examine x-rays, place protective plastic sealants on children's teeth, straighten teeth, and repair fractured teeth. They also perform corrective surgery on gums and supporting bones to treat gum diseases. Dentists extract teeth and make models and measurements for dentures to replace missing teeth. They also administer anesthetics and write prescriptions for antibiotics and other medications.

Dentists use a variety of equipment, including x-ray machines, drills, mouth mirrors, probes, forceps, brushes, and scalpels. They wear masks, gloves, and safety glasses to protect themselves and their patients from infectious diseases.

Dentists in private practice oversee a variety of administrative tasks, including bookkeeping and the buying of equipment and supplies. They may employ and supervise dental hygienists, dental assistants, dental laboratory technicians, and receptionists. (These occupations are described elsewhere in the *Handbook*.)

Most dentists are general practitioners, handling a variety of dental needs. Other dentists practice in any of nine specialty areas. *Orthodontists*, the largest group of specialists, straighten teeth by applying pressure to the teeth with braces or retainers. The next largest group, *oral and maxillofacial surgeons*, operates on the mouth and jaws. The remainder may specialize as *pediatric dentists* (focusing on dentistry for children); *periodontists* (treating gums and bone supporting the teeth); *prosthodontists* (replacing missing teeth with permanent fixtures, such as crowns and bridges, or with removable fixtures such as dentures); *endodontists* (performing root canal therapy); *public health dentists* (promoting good dental health and preventing dental diseases within the community); *oral pathologists* (studying oral diseases); or *oral and maxillofacial radiologists* (diagnosing diseases in the head and neck through the use of imaging technologies).

Work environment. Most dentists are solo practitioners, meaning that they own their own businesses and work alone or

with a small staff. Some dentists have partners, and a few work for other dentists as associate dentists.

Most dentists work 4 or 5 days a week. Some work evenings and weekends to meet their patients' needs. The number of hours worked varies greatly among dentists. Most full-time dentists work between 35 and 40 hours a week. However, others, especially those who are trying to establish a new practice, work more. Also, experienced dentists often work fewer hours. It is common for dentists to continue in part-time practice well beyond the usual retirement age.

Training, Other Qualifications, and Advancement

All 50 States and the District of Columbia require dentists to be licensed. To qualify for a license in most States, candidates must graduate from an accredited dental school and pass written and practical examinations.

Education and training. In 2006, there were 56 dental schools accredited by the American Dental Association's (ADA's) Commission on Dental Accreditation. Dental schools require a minimum of 2 years of college-level pre dental education prior to admittance. Most dental students have at least a bachelor's degree before entering dental school, although a few applicants are accepted to dental school after 2 or 3 years of college and complete their bachelor's degree while attending dental school.

High school and college students who want to become dentists should take courses in biology, chemistry, physics, health,



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and mathematics. College undergraduates planning on applying to dental school are required to take many science courses. Because of this, some choose a major in a science, such as biology or chemistry, while others take the required science coursework while pursuing a major in another subject.

All dental schools require applicants to take the Dental Admissions Test (DAT). When selecting students, schools consider scores earned on the DAT, applicants' grade point averages, and information gathered through recommendations and interviews. Competition for admission to dental school is keen.

Dental school usually lasts 4 academic years. Studies begin with classroom instruction and laboratory work in science, including anatomy, microbiology, biochemistry, and physiology. Beginning courses in clinical sciences, including laboratory techniques, are also completed. During the last 2 years, students treat patients, usually in dental clinics, under the supervision of licensed dentists. Most dental schools award the degree of Doctor of Dental Surgery (DDS). Others award an equivalent degree, Doctor of Dental Medicine (DMD).

Some dental school graduates work for established dentists as associates for 1 to 2 years to gain experience and save money to equip an office of their own. Most dental school graduates, however, purchase an established practice or open a new one immediately after graduation.

Licensure. Licensing is required to practice as a dentist. In most States, licensure requires passing written and practical examinations in addition to having a degree from an accredited dental school. Candidates may fulfill the written part of the State licensing requirements by passing the National Board Dental Examinations. Individual States or regional testing agencies administer the written or practical examinations.

In 2006, 17 States licensed or certified dentists who intended to practice in a specialty area. Requirements include 2 to 4 years of postgraduate education and, in some cases, the completion of a special State examination. Most State licenses permit dentists to engage in both general and specialized practice.

Other qualifications. Dentistry requires diagnostic ability and manual skills. Dentists should have good visual memory, excellent judgment regarding space, shape, and color, a high degree of manual dexterity, and scientific ability. Good business sense, self-discipline, and good communication skills are helpful for success in private practice.

Advancement. Dentists who want to teach or conduct research usually spend an additional 2 to 5 years in advanced dental training, in programs operated by dental schools or hospitals. A recent survey by the American Dental Education Association

showed that 11 percent of new graduates enrolled in postgraduate training programs to prepare for a dental specialty.

Employment

Dentists held about 161,000 jobs in 2006. Employment was distributed among general practitioners and specialists as follows:

Dentists, general.....	136,000
Orthodontists.....	9,200
Oral and maxillofacial surgeons	7,700
Prosthodontists.....	1,000
Dentists, all other specialists.....	6,900

About one third of dentists were self-employed and not incorporated. Almost all dentists work in private practice. According to the ADA, about 3 out of 4 dentists in private practice are sole proprietors, and 1 in 7 belongs to a partnership. A few salaried dentists work in hospitals and offices of physicians.

Job Outlook

Average employment growth will generate some job openings, but most openings will result from the need to replace the large number of dentists expected to retire. Job prospects should be good as new dentists take over established practices or start their own.

Employment change. Employment of dentists is projected to grow nine percent through 2016, about as fast as the average for all occupations. The demand for dental services is expected to continue to increase. The overall population is growing, particularly the number of older people, which will increase the demand for dental care. As members of the baby-boom generation advance into middle age, a large number will need complicated dental work, such as bridges. In addition, elderly people are more likely to retain their teeth than were their predecessors, so they will require much more care than in the past. The younger generation will continue to need preventive checkups despite an overall increase in the dental health of the public over the last few decades. Recently, some private insurance providers have increased their dental coverage. If this trend continues, those with new or expanded dental insurance will be more likely to visit a dentist than in the past. Also, while they are currently a small proportion of dental expenditures, cosmetic dental services, such as fitting braces for adults as well as children and providing teeth-whitening treatments, have become increasingly popular.

Projections data from the National Employment Matrix

Occupational Title	SOC Code	Employment, 2006	Projected employment, 2016	Change, 2006-2016	
				Number	Percent
Dentists	29-1020	161,000	176,000	15,000	9
Dentists, general.....	29-1021	136,000	149,000	13,000	9
Oral and maxillofacial surgeons	29-1022	7,700	8,400	700	9
Orthodontists.....	29-1023	9,200	10,000	800	9
Prosthodontists.....	29-1024	1,000	1,100	100	11
Dentists, all other specialists.....	29-1029	6,900	7,400	500	7

NOTE: Data in this table are rounded. See the discussion of the employment projections table in the *Handbook* introductory chapter on *Occupational Information Included in the Handbook*.

However, employment of dentists is not expected to keep pace with the increased demand for dental services. Productivity increases from new technology, as well as having dental hygienists and assistants perform some tasks, will allow dentists to perform more work than they have in the past. As their practices expand, dentists are likely to hire more hygienists and dental assistants to handle routine services.

Dentists will increasingly provide care and instruction aimed at preventing the loss of teeth, rather than simply providing treatments such as fillings. Improvements in dental technology also will allow dentists to offer more effective and less painful treatment to their patients.

Job prospects. As an increasing number of dentists from the baby-boom generation reach retirement age, many of them will retire or work fewer hours. However, the number of applicants to, and graduates from, dental schools has increased in recent years. Therefore, younger dentists will be able to take over the work from older dentists who retire or cut back on hours, as well as provide dental services to accommodate the growing demand.

Demand for dental services tends to follow the business cycle, primarily because these services usually are paid for either by the patient or by private insurance companies. As a result, during slow times in the economy, demand for dental services can decrease; dentists may have difficulty finding employment, or if already in an established practice, they may work fewer hours because of reduced demand.

Earnings

Median annual earnings of salaried dentists were \$136,960 in May 2006. Earnings vary according to number of years in

practice, location, hours worked, and specialty. Self-employed dentists in private practice tend to earn more than do salaried dentists.

Dentists who are salaried often receive benefits paid by their employer, with health insurance and malpractice insurance being among the most common. However, like other business owners, self-employed dentists must provide their own health insurance, life insurance, retirement plans, and other benefits.

Related Occupations

Dentists examine, diagnose, prevent, and treat diseases and abnormalities. Chiropractors, optometrists, physicians and surgeons, podiatrists, psychologists, and veterinarians do similar work.

Sources of Additional Information

For information on dentistry as a career, a list of accredited dental schools, and a list of State boards of dental examiners, contact:

► American Dental Association, Commission on Dental Accreditation, 211 E. Chicago Ave., Chicago, IL 60611.

Internet: <http://www.ada.org>

For information on admission to dental schools, contact:

► American Dental Education Association, 1400 K St. NW., Suite 1100, Washington, DC 20005. Internet: <http://www.adea.org>

Persons interested in practicing dentistry should obtain the requirements for licensure from the board of dental examiners of the State in which they plan to work.

To obtain information on scholarships, grants, and loans, including Federal financial aid, prospective dental students should contact the office of student financial aid at the schools to which they apply.