CAREER CLUSTER: EDUCATION AND TRAINING



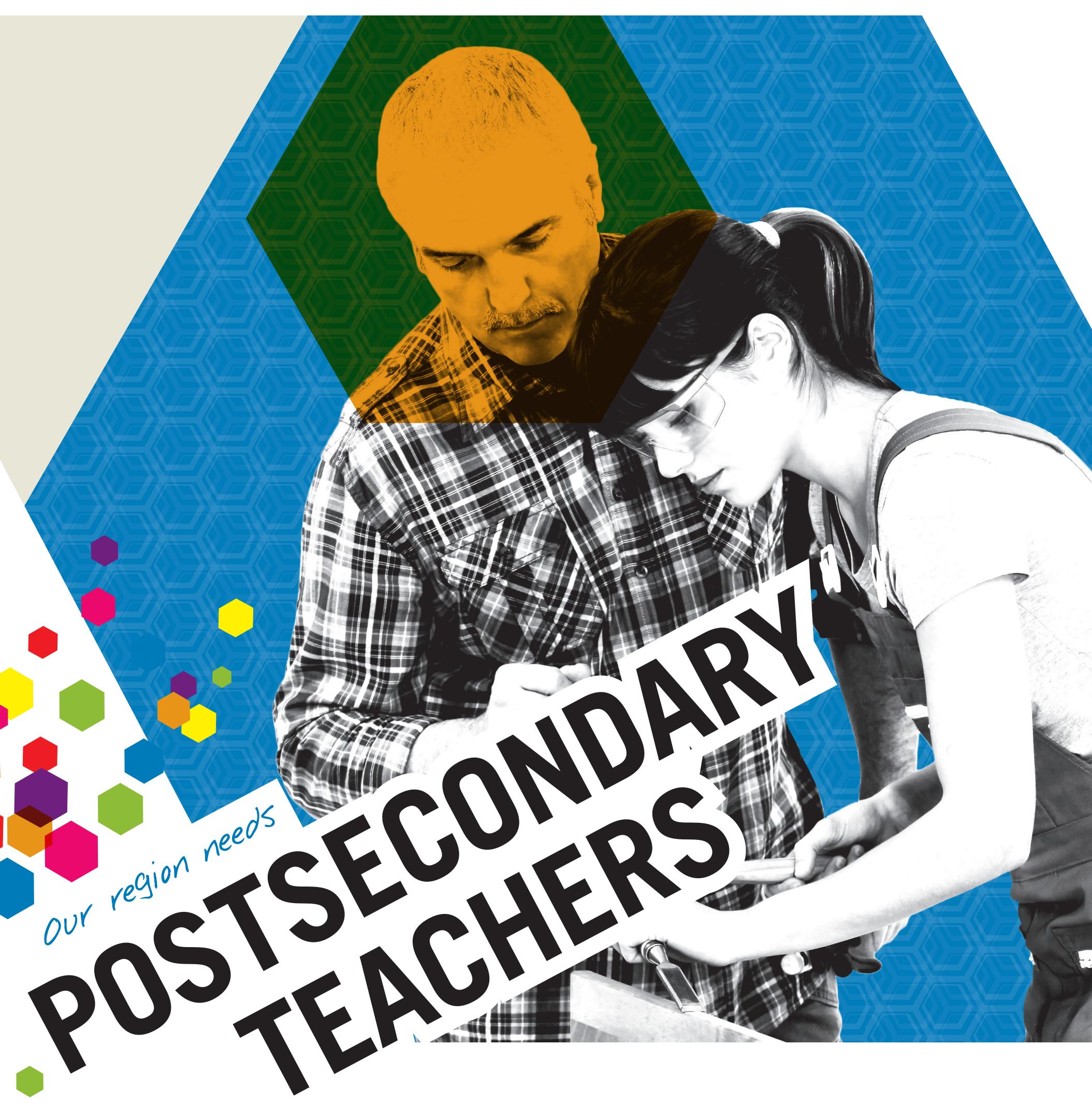
wage of more than \$53,000 per year as a teacher.

More than 7,300 jobs are open each year for secondary math, science and special education teachers at elementary and secondary schools. Bilingual teachers are particularly valuable throughout the region.

Learn more at:



CAREER CLUSTER: EDUCATION AND TRAINING



Most postsecondary teacher opportunities require at least a master's degree and average annual wages generally start at \$61,000.

Postsecondary teachers may be employed in traditional university settings or technical and trade schools. They teach various core and skilled workforce subject matters.

The demand for technical and trade school instructors is particularly high.

Learn more at:







Advanced welders with specialty skills are in short supply. Welders can work in a variety of industries and earn up to \$19.40 per hour. Individuals with accrued experience, formal training and the ability to travel across the region achieve the highest success in this field.

The Gulf Coast region needs to train more than 800 new welders every year through 2020 to meet a rapidly rising demand.

Learn more at:







Employers generally want applicants with a high school diploma or better, and long-term, on-the-job training is common. The average hourly wage is \$32.92.

Chemical plant operators analyze data to monitor the manufacturing process of various products and serve as troubleshooters.

Learn more at:



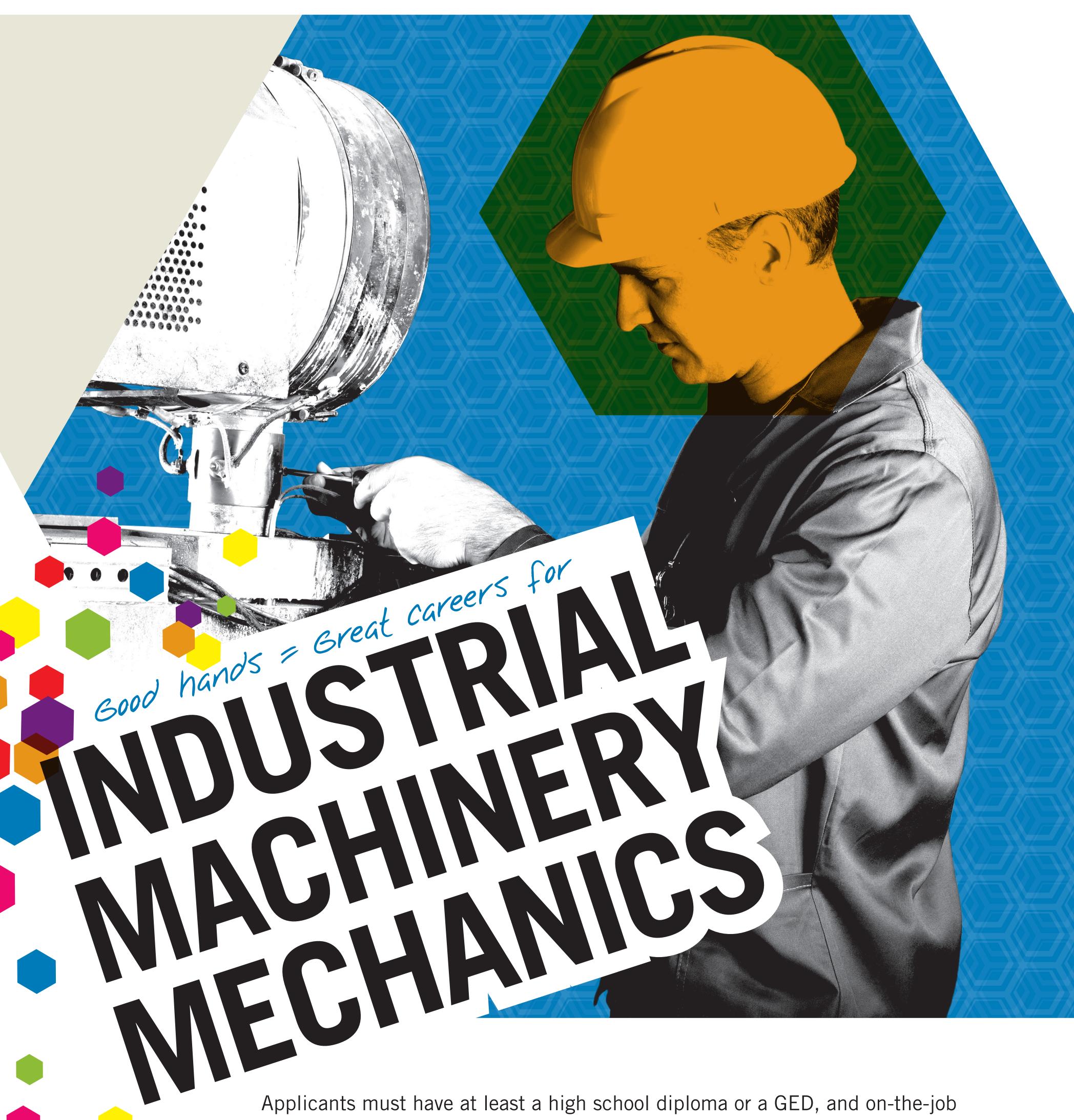


Long-term on-the-job training is common in this field, but earning an associate's degree in process technology opens doors to several careers in the chemical industry. The average hourly wage is \$30.93.

Refinery operators, petroleum system operators, and gaugers control the operation of petroleum refining or processing units.

Learn more at:





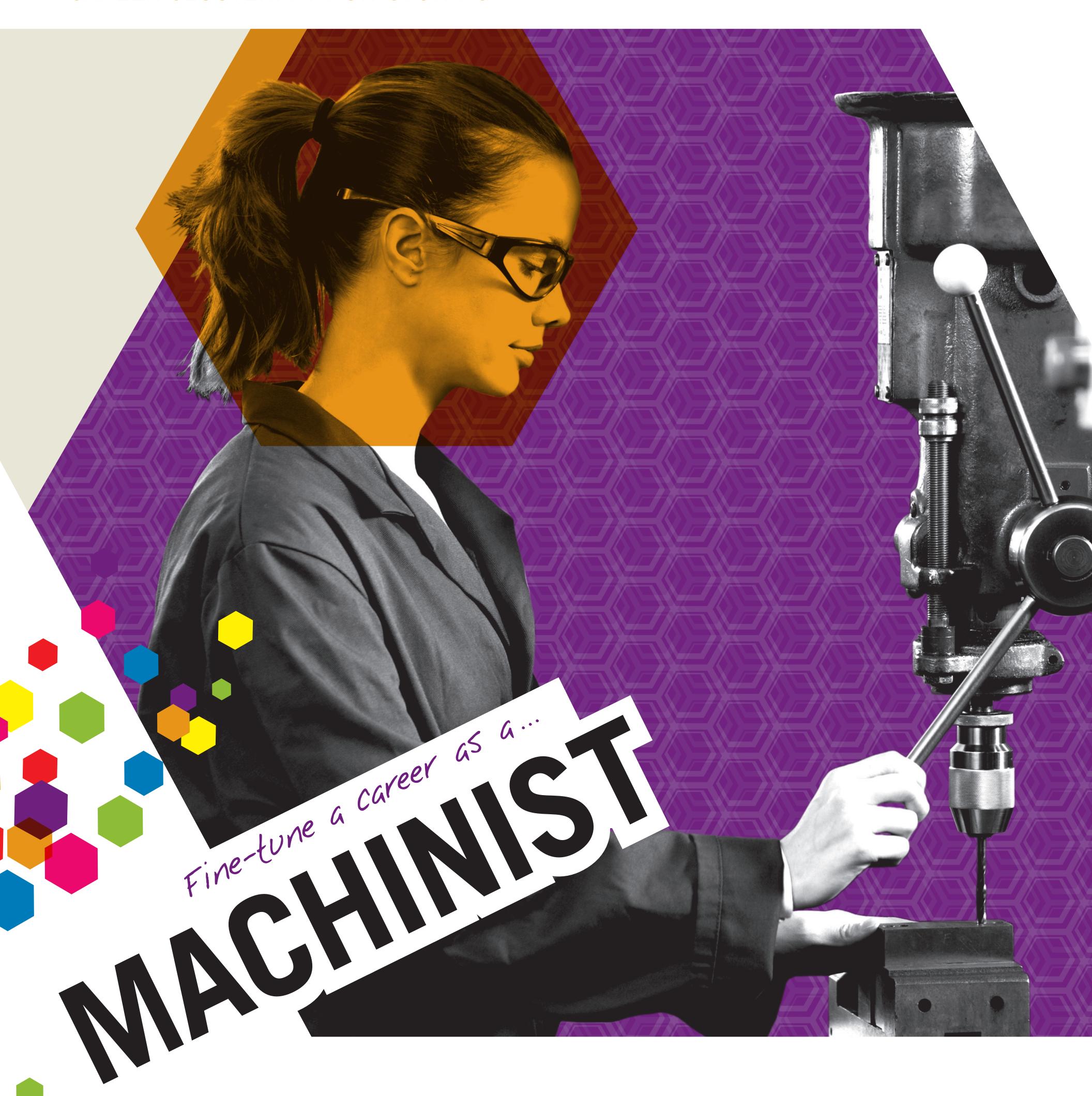
Applicants must have at least a high school diploma or a GED, and on-the-job training is required. The average hourly wage is \$23.23—before overtime and incentive pay.

Industrial machinery mechanics maintain plants and factories by detecting breakdown conditions, making machinery adjustments and repairing faulty equipment.

Learn more at:







A growing number of machinists earn two-year associate degrees at community or technical colleges. Long-term, on-the-job training is common. Hourly wages range between \$16.00 and \$22.00 before overtime.

Machinists are highly-skilled manufacturing workers with extensive knowledge of many precision machine tools which they use to produce metal or plastic parts.

Learn more at:





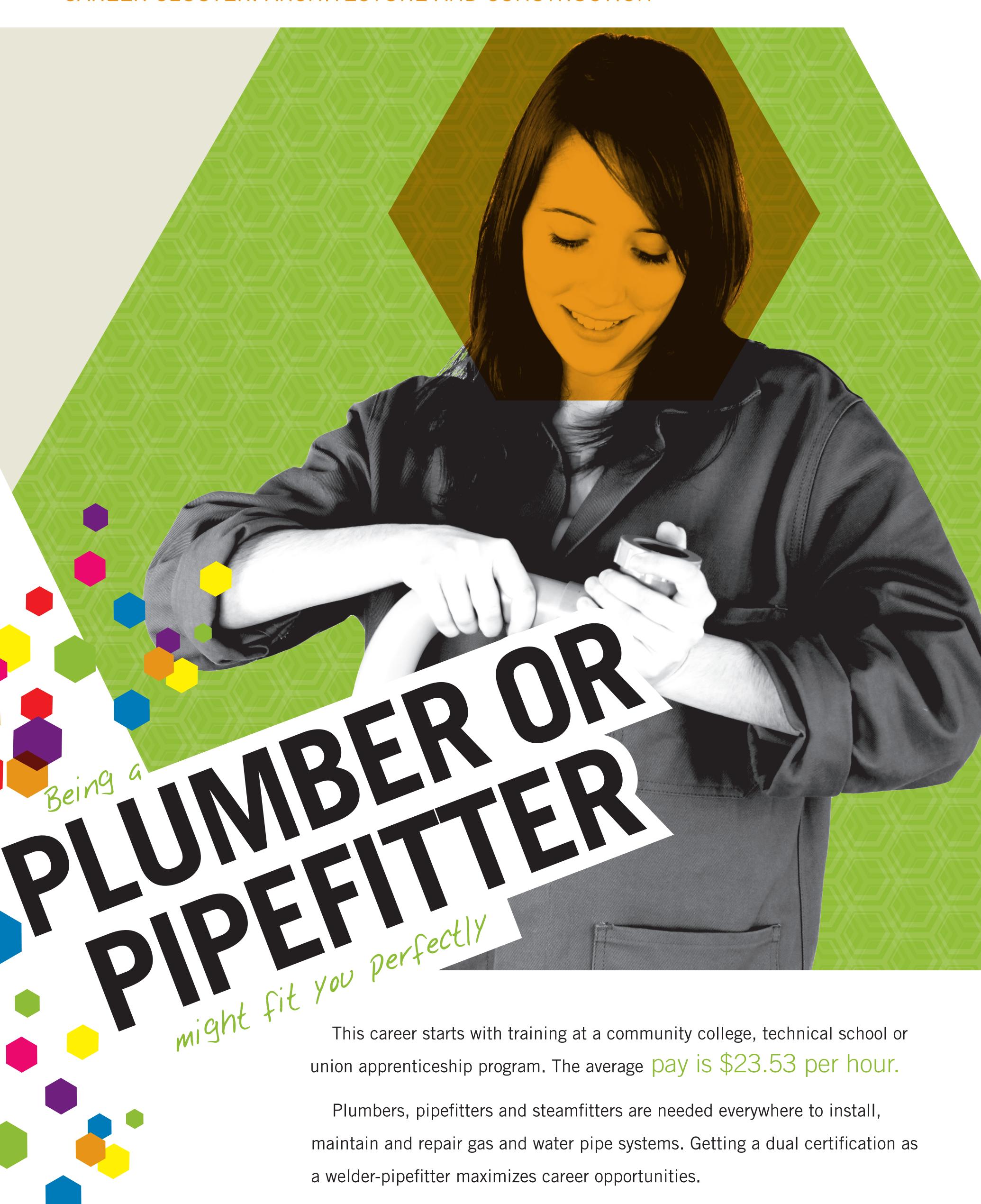
Getting certified only takes two years at a technical school or community college and you can earn an average of \$21.43 per hour.

Electricians install and replace wiring, and must be licensed by the state. Those who achieve journeyman status are best able to find steady jobs. Those who earn a master electrician's license have the highest earning potential.

Learn more at:







Learn more at:







Heating, Ventilation, and Air Conditioning (HVAC) mechanics and installers can be trained at a community college or complete training at a technical institute. The average hourly wage is \$20.05.

HVAC mechanics and installers work for commercial maintenance companies or as independent contractors. They apply high-tech tools to diagnose and fix a wide variety of heating and cooling appliances and equipment.

Learn more at:







Cost estimators work for architectural or construction firms. Employers generally prefer college degrees related to construction management, engineering, architecture, math, or other disciplines as well as commercial construction experience. The average annual salary can easily be more than \$60,000 per year.

Cost estimators compile and analyze costs for manufacturing and construction projects across various industries, including energy.

Learn more at:







Employers prefer to hire power-line installers with a high school diploma or equivalent. In addition, power-line installers spend years of long-term, on-the-job training coupled with classroom work. The average hourly wage is \$24.72.

Power-line installers install, maintain and repair the vast network of cable connections that run between power plants and consumers.

Learn more at:







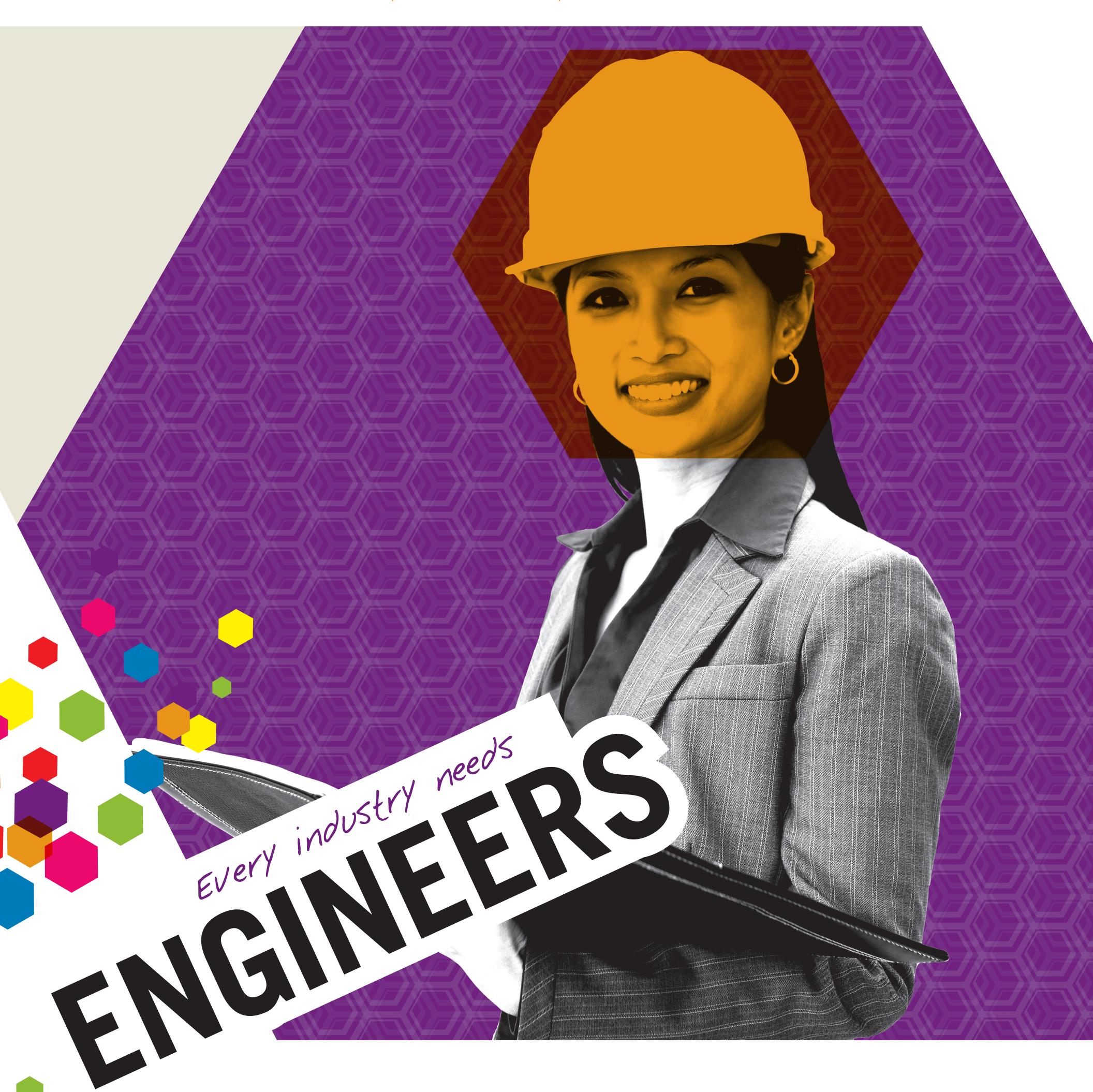
Employers usually require a high school diploma or GED. Moderate-term, on-the-job training is common. The work is outdoors, physically intensive and requires overtime hours and frequent travel. Wages start at around \$20.00 per hour.

The rig operator's responsibilities include moving heavy equipment, monitoring pressure and density plus many other specialized tasks.

Learn more at:







Engineering jobs generally require at least a bachelor's degree, while a master's degree enables more opportunities. Starting salaries can be above \$50,000 per year. Experienced engineers with advanced skills can easily earn more than \$100,000 per year.

All engineers—chemical, civil, electrical, mechanical, petroleum, process and others—handle the design, development, testing or supervision of various projects.

Learn more at:





Employers generally require a master's degree in general geology or earth science, but some accept bachelor's degrees for a few entry-level positions. Annual salaries can range from \$50,000 for those with a bachelor's degree to more than \$100,000 for individuals with doctoral degrees.

Geoscientists study the composition, structure and other physical aspects of the earth for the purpose of oil and gas exploration. Some also find work in education, mining, government and the environmental industry. Most geoscientists pursue advanced degrees, studying in seismic and hydraulic systems.

Learn more at:







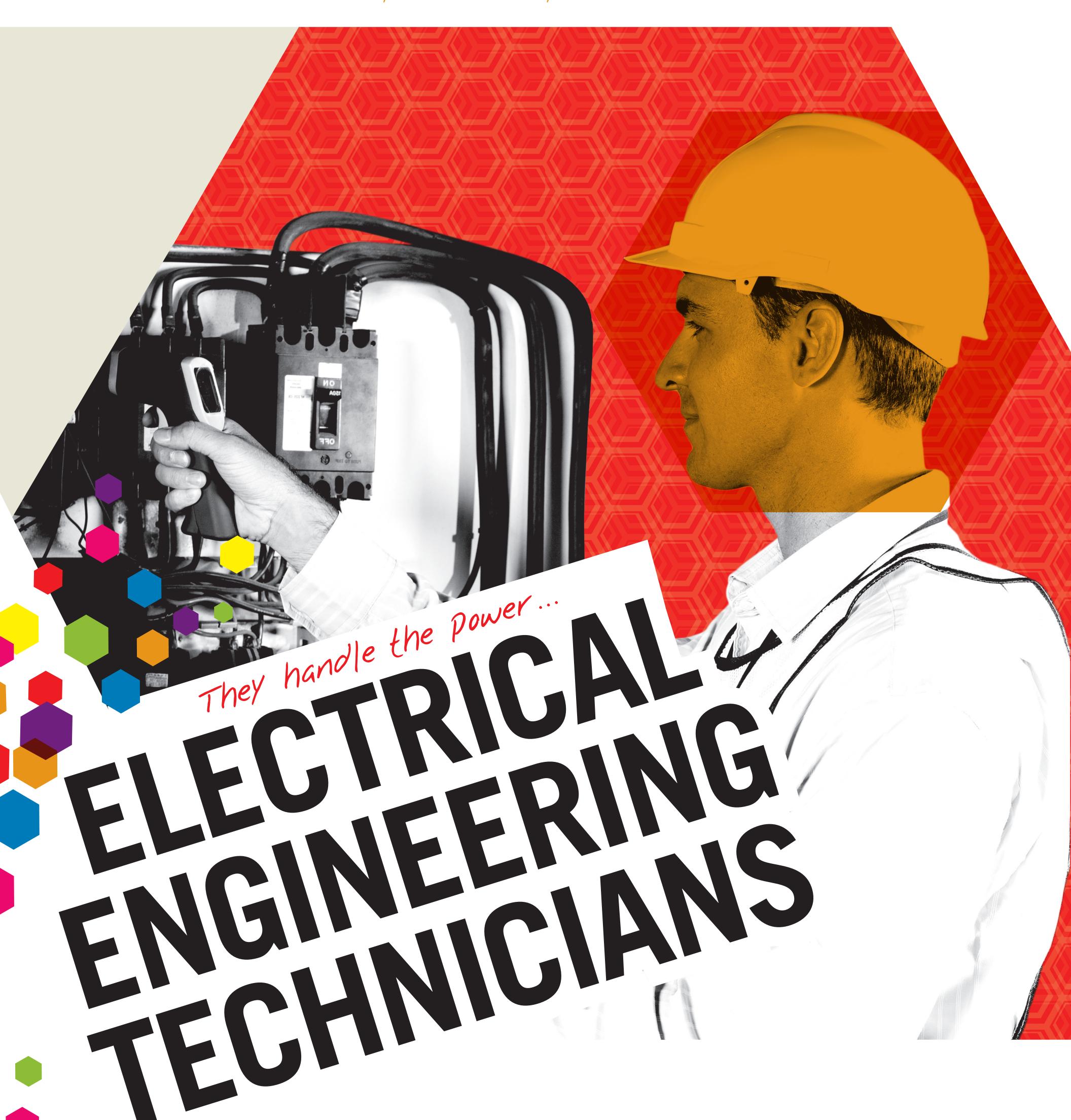
Most employers prefer individuals who have at least two years of specialized training or an associate's degree in applied science or science-related technology. The average hourly wage is \$22.79 per hour.

Whether in an office or out in the field, geological technicians help scientists find potential sources of oil and gas through the collection and examination of geological data.

Learn more at:







Applicants with degrees in industrial technology, instrumentation technology or a related field are preferred by most employers. The average annual salary is about \$62,000.

Electrical and electronic engineering technicians install, maintain and repair automated equipment needed in manufacturing plants, pipeline systems and other high-tech operations.

Learn more at:







Becoming a registered nurse for most hospital systems in the Gulf Coast region requires earning at least a BSN and passing a national licensing exam. The average hourly wage is around \$30.00.

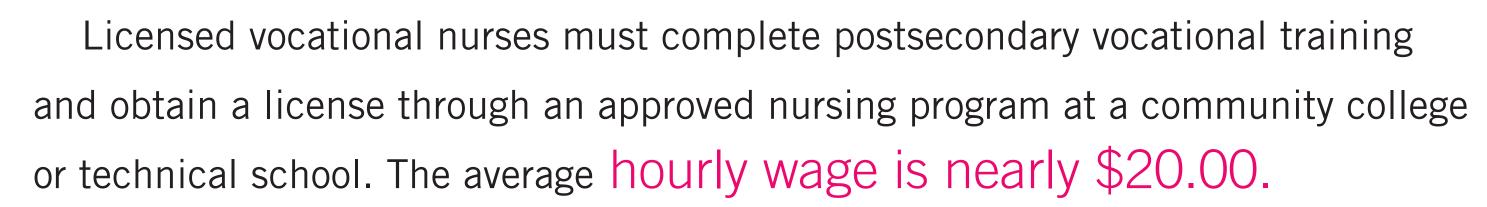
Registered nurses provide care using advanced knowledge and analytical skills. They generally work in hospitals and clinics.

Learn more at:









Licensed vocational nurses (LVNs) provide basic patient care. They account for one in every four nursing occupations in the Gulf Coast region.

Learn more at:







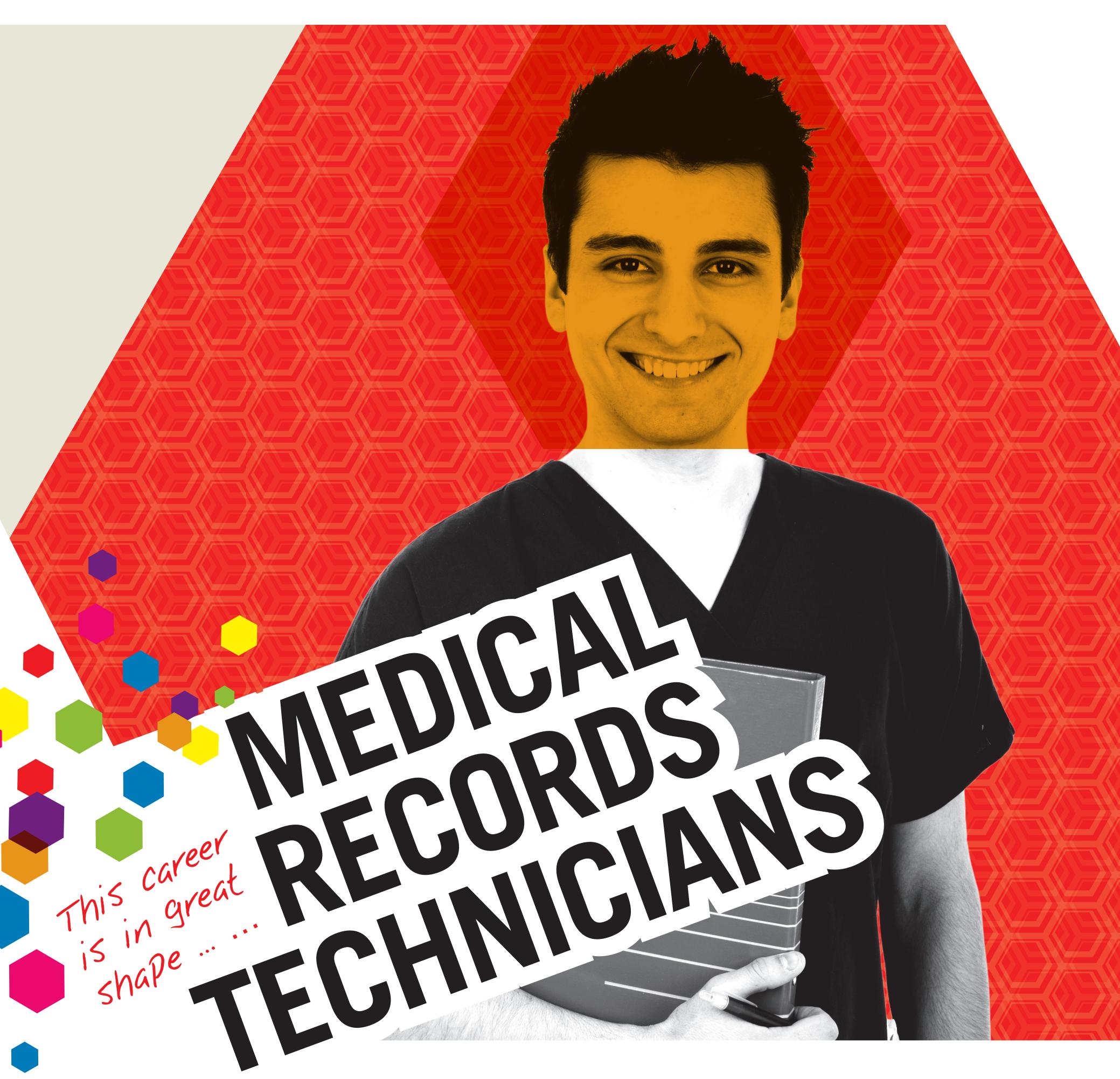
Pharmacists must earn a master's or Pharm.D. degree and pass a state licensure examination. The average annual salary is more than \$100,000.

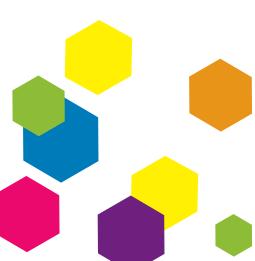
Pharmacists count pills, fill prescriptions and provide proper selection and dosage of medications, interactions, and side effects of medications. Pharmacists often work in a 24/7 environment.

Learn more at:









Medical records technicians must earn at least a certificate, but employers generally prefer graduates of an associate's degree program. Entry-level wages average about \$12.00 per hour. The average hourly wage is \$17.64.

Medical records/health information technicians work in hospitals, physician offices, community health centers and other health care organizations. Using complex proprietary database systems, technicians manage, interpret and report data to maintain accurate records. Technicians who can maintain and troubleshoot computer systems have greater earning potential.



Learn more at:





Radiologic technologists generally must complete a two-year associate degree program. Their average hourly wage is \$26.27.

Radiologic technologists are most easily associated with imaging tests, or x-rays. They perform imaging tests to assist in diagnosing patients. Some radiologic technologists specialize in computerized tomography (CT) and magnetic resonance imaging (MRI).

Learn more at:





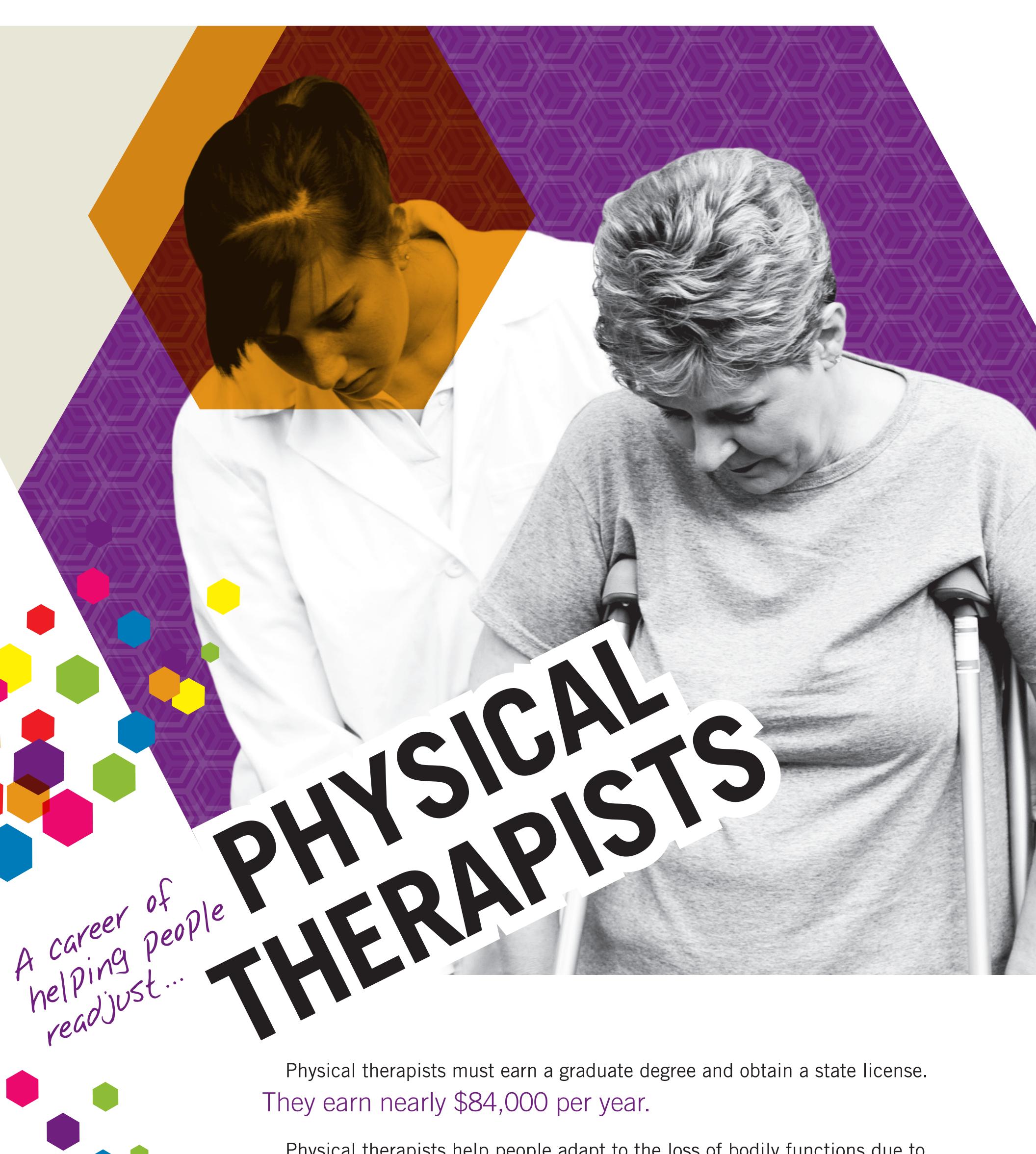
Speech-language pathologists, commonly called speech therapists, diagnose and treat those with speech and language difficulties resulting from various medical problems.

Speech-language pathologists must have a master's degree in speech language pathology. The average annual salary is more than \$69,000.

Learn more at:







Physical therapists must earn a graduate degree and obtain a state license.

Physical therapists help people adapt to the loss of bodily functions due to injuries or ailments.

Learn more at:







Their wages average nearly \$56,000 per year.

The demand for more medical and clinical laboratory technologists is growing as the use of complex laboratory testing for early diagnosis, treatment and prevention of disease rises.

Learn more at:







An associate's degree is necessary to become a respiratory therapist. The average hourly wage is \$26.54.

Respiratory therapists generally work in hospitals and nursing homes with patients who are experiencing cardiology or pulmonary dysfunction. They initiate and conduct therapeutic procedures and treatments; maintain patient records; and select, assemble, check and operate equipment.

Learn more at:





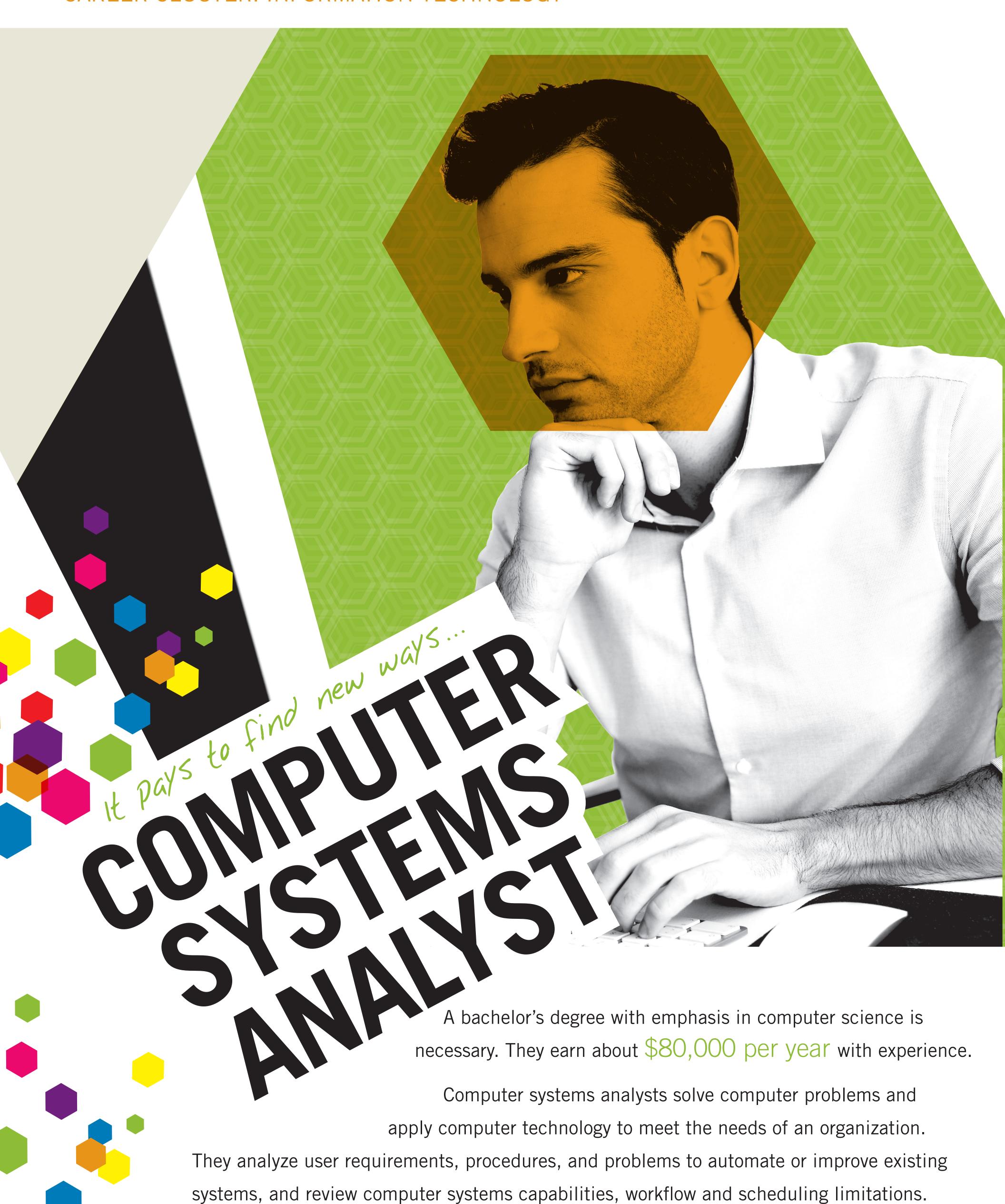


A master's degree is necessary to become an occupational therapist. The average hourly wage is \$36.28.

Occupational therapists work with individuals who suffer from a mental, physical, developmental and/or emotional disability. They utilize treatments that develop, recover or maintain clients' activities of daily living.

Learn more at:





Learn more at:





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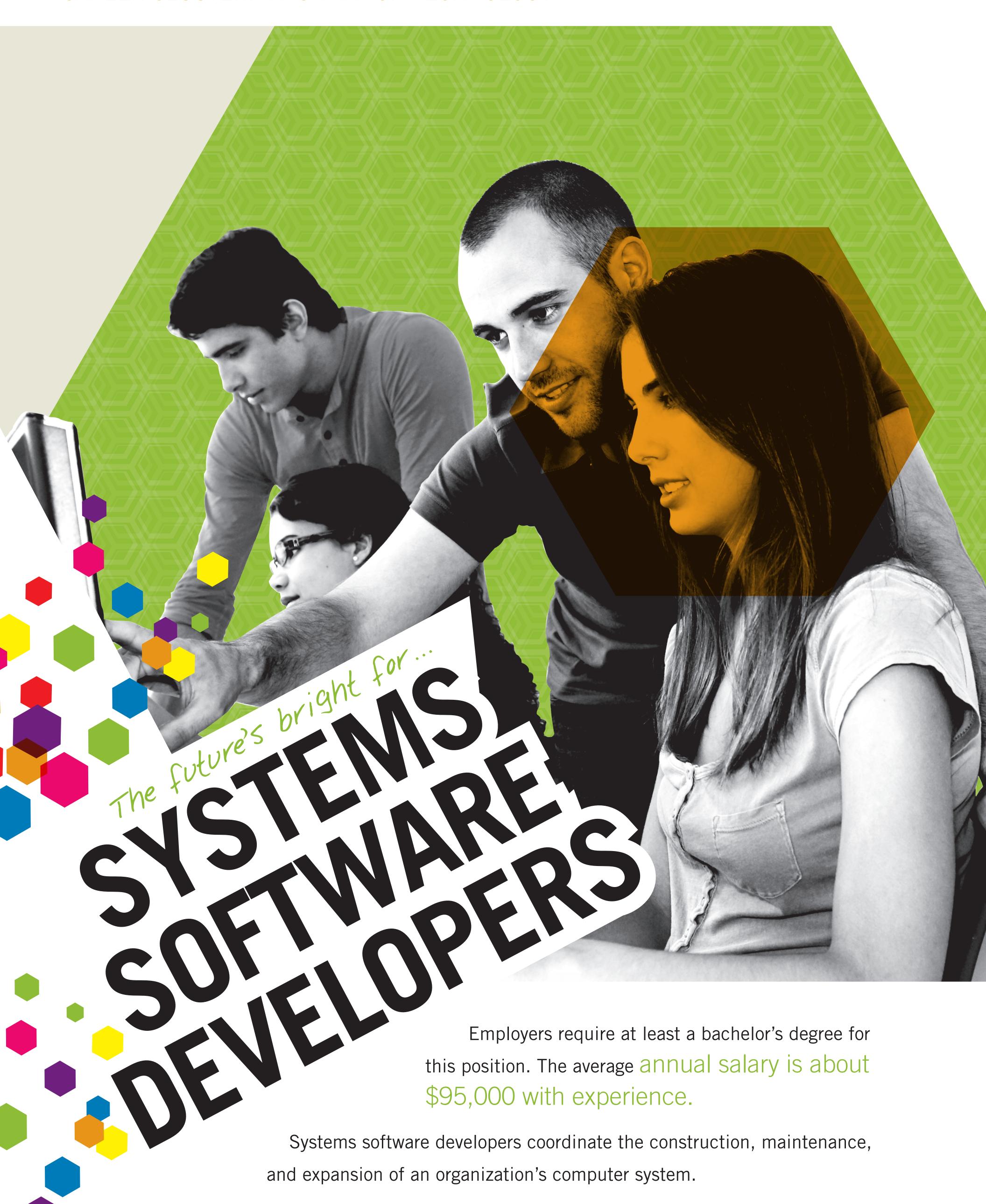
Employers require at least a bachelor's degree for this position. The average annual salary is more than \$70,000.

Network and computer systems administrators analyze, design and test local area networks (LAN), wide area networks (WAN), Internet, intranet and other data communication systems.

Learn more at:





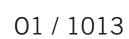


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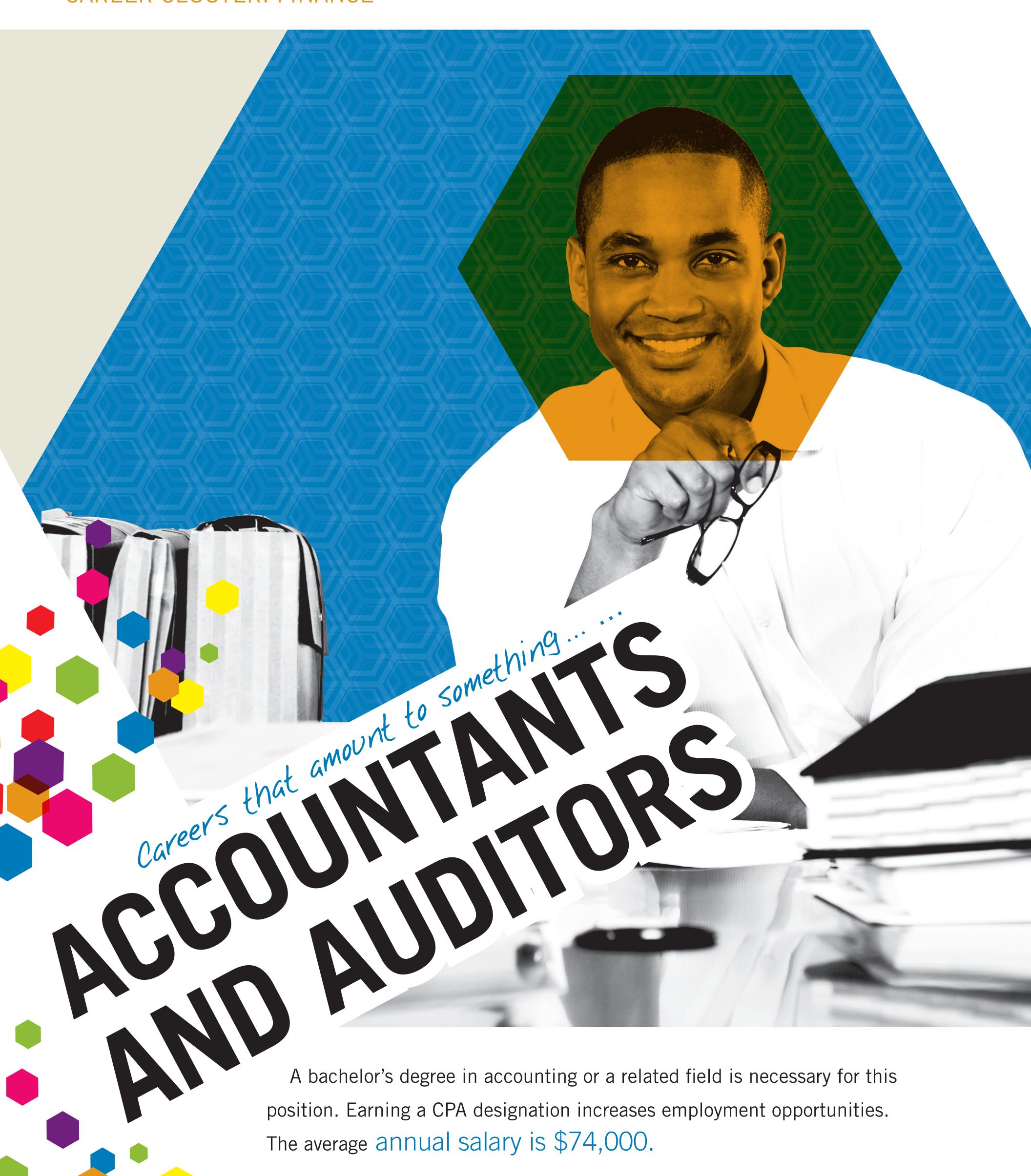


CAREER CLUSTER: MARKETING





CAREER CLUSTER: FINANCE



Accountants and auditors ensure that a company is run efficiently, its public records are kept accurately, and its taxes are paid properly and timely.

Learn more at:



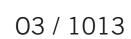
CAREER CLUSTER: FINANCE



A bachelor's degree in finance or a related field is necessary for this position. The average annual salary is \$90,000.

Financial analysts study the performance of stocks, bonds, investments and commodities to make investment recommendations.

Learn more at:





CAREER CLUSTER: LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY



An associate's degree is necessary for this position. Experienced paralegals can earn more than \$45,000 per year.

Paralegals, also referred to as legal assistants, assist lawyers by researching legal precedent, investigating facts or preparing legal documents.

Learn more at:



