



Automotive Technicians: Adjust, repair, and overhaul automotive vehicles using computer diagnostic equipment. 2-4 yrs. - \$10.40/16.13

Automotive Body Repairer: Use special equipment and technology to restore damaged metal frames and body sections. 2- 4 yrs. - \$10.43/14.23

Diesel Engine Technicians: Repair and maintain trucks, buses and heavy equipment using computer diagnostic equipment. 2-4 yrs. - \$10.40/17.57

Transportation, Distribution & Managers (Cargo/Freight): Monitor inventory levels, planning, directing distribution, and customer relations. 2-4 yrs. - \$22.93/34.17

Truck Drivers, Heavy: Drives 3+ ton trucks; prepares paperwork; collects payments for goods delivered. 3-6 mos. - \$12.25/17.43

Emerging and Evolving Occupations

Projected to Offer Future Employment Opportunities

Emerging Occupations are new occupations in the workforce with new titles and new skills.

Evolving Occupations are traditional occupations whose knowledge, skills, and abilities have changed or evolved.

(A) \$9.00-10.00 per hour ~ (B) \$10.00-15.00 per hour

(C) \$15.00-20.00 ~ (D) 20.00+ per hour

Wages listed are expected entry level to median hourly

Education is the expected to be required

Advanced Digital Manufacturing (ADM) Technicians: Emerging Occupation - New technical breakthroughs for the pre-existing process for forming a product using a layered manufacturing process. Every ADM system consists of two parts: 1) a computer aided design system and 2) a layered manufacturing machine capable of producing a part in successive layers according to instructions from the CAD system. 2-4 yrs. - (B-C)

Biomedical Equipment Information Systems (BEISS): Emerging Occupation - Skill sets from biomedical equipment technology, medical imaging, and information systems requiring experience in medical equipment repair and information technology to work at medical centers, and manufactures of medical imaging and picture archiving and communication specialists field engineer positions. 2-4 yrs. - (B-C)

Biomedical Engineers: Emerging Occupation - Apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and health management and care delivery systems. 4-10 yrs. - (C-D)

Biotechnology Research Technicians (O*NET 19-4021.00): Emerging Occupation - Assist scientists in laboratories. Set up, operate, and maintain laboratory instruments and equipment, monitor experiments, make observations, and calculate and record results. 4 yrs. - (B-C)

Composite Technicians (Bond Assembler): Evolving Occupation - Work with metals, ceramics, plastics, semiconductors, and combinations of materials called composites to create new materials that meet certain mechanical, electrical, and chemical requirements. New developments

within composite materials make it possible to manipulate, use and study materials at an atomic level using advanced processes to replicate their characteristics and components with computers. OJT-2 yrs. - (B-C)

Computer & Digital Forensics Technicians: Emerging Occupation – The science of conducting investigations related to computer crimes and abuse in a manner that is legally sound and reproducible. Using specialized hardware and software tools, computer forensics technicians gather evidence about all kinds of activity including fraud, embezzlement, child pornography, and intellectual property misappropriation. 2 yrs. - (B-C)

Computer Security Specialists: Emerging Occupation - Plan, coordinate, and implement security measures to prevent unauthorized modification, destruction, or disclosure of information. Regulate users' access to computer data files and erect firewalls to keep out tainted digital transfers. Use encryption coding to conceal confidential information as it is being transmitted. 2 yrs. - (B-C)

Convergence Technology Specialists/Technicians: Emerging Occupation - Combines telephony, data networking, voice over IP and hand held devices, to solve real problems. Includes Home Technology Technicians who handle the multiple technologies needed in a home or small office environment and in large businesses who are merging legacy voice and data systems with voice over IP, wireless, etc. all in a secure environment. 2-4 yrs. - (C-D)

Data Mining Technicians: Emerging Occupation - Research and problem solve by burrowing through gigabytes of information in search of unanticipated patterns. 1-2 yrs. - (B-D)

Electronic Commerce Specialist: Emerging Occupation – Apply knowledge of marketing and advertising to design Internet business webpages. Determine the content, layout the design specifications, and convey the information to webmasters for programming. 2-4 yrs. (C)

Environmental Scientists & Specialists: Emerging Occupation - Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Utilizing knowledge of various scientific disciplines. 4-10 yrs. - (C-D)

Gaming Technician: Emerging Occupation – Create 2D/3D animation through the use of high-end software for a variety of industries including entertainment, advertising and corporate communications. Advancing toward network dependent interfaces/environments. Technology is evolving the concepts of cyberspace, media, computer mediated communication and education technology. 2-4 yrs. - (C-D)

Geographic Information Systems Technicians (Surveying & Mapping Technician) (O*NET 17-3031.00): Evolving Occupation – Help design and coordinate the development of integrated geographical information system databases of spatial and non-spatial data. Create digital maps and graphs using GIS software and related equipment. GIS technicians gather land survey data and other topographical details needed to build geographic databases. 2-4 yrs. - (B-C)

Global Positioning Systems (GPS) Technicians: Emerging Occupation – Install, maintain, repair, and use electronic equipment that sends and receives electronic signals via satellites to determine the exact position of the sending unit. Some technicians analyze GPS signals and use digital maps to locate the position of the sending signal. Cert. – 2 yrs. - (B-C)

High Performance Computing (HPC): Emerging Occupation - A multidisciplinary field, combining digital electronics, computer architecture, systems software, programming languages, algorithms and computational techniques in parallel computing environments to model

complex systems or to control transactional computing services. 2-4 yrs. - (B-D)

Mechanics Technicians: Emerging Occupation - Combines a system of technologies including, mechanical, electrical, computer and control engineering disciplines into intelligent mechanical systems in many different industries. May be system operators, technicians or engineers. 2-4 yrs. - (D)

Micro-electromechanical Systems (MEMS) Technicians: Emerging Occupation – Miniaturized, self contained systems that integrate electrical and mechanical functionality allowing them to gather and process information, decide on a course of action and control the surrounding environment. Will have a significant effect on the development of “intelligent” products in a wide range of industries including scientific, consumer goods, defense, aerospace, medical and healthcare, and automotive. 2 yrs. - (B-C)

Nanotechnology Technician: Emerging Occupation – Operate and service microscopy equipment capable of characterizing nanostructures. Must have extensive background in materials science and optics. 2-4 yrs. (B-C)

Nurse Practitioner – Evolving Occupation - Provide medical care to patients in hospitals and other healthcare facilities. Responsible for recording and analyzing a patient’s history, performing physical exams, ordering diagnostic tests, prescribing physical therapy and other similar tasks. There are many specialties available. 2-10 yrs. - (C-D)

Robotics Technicians: Emerging Occupation – Robotics technicians (automated) install, program, and repair robots and related equipment, such as programmable controllers, robot controllers, end-of-arm tools, and conveyors. Specific duties include inspecting installation sites, positioning the robots using hydraulic tools, attaching wires between controllers, programming the robots to perform specific tasks, and testing electronic circuitry. Those that work for robot manufacturers, also assist in design and configuration. 2-4 yrs. - (B-D)

Solar Photovoltaic (Electric) Installer: Emerging Occupation –The ideal candidate will have some construction experience, especially knowledge of basic electrical wiring with experience as a solar electric installation desirable but not required. Most likely to evolve from solar trained Electrician. - (C-D)

Solar Thermal Installers & Technicians (SOC: 47-4099.02): Emerging Occupation - Install or repair solar energy systems designed to collect, store, and circulate solar-heated water for residential, commercial or industrial use. Most likely evolve from solar trained Plumber or HVAC Technician - 2-10 yrs. - (C-D)



The Career Clusters icons are being used with permission of the: States' Career Clusters Initiative, 2007, www.careerclusters.org



2010~2015 Targeted Occupations Identified by Regional Employers For Long Term Growth Potential



The information included in this document is intended to be used as a guideline for high skill, high wage, and high demand occupational opportunities in North Central Texas. The absence of an occupation on this list does not necessarily preclude it from viable career opportunities. Labor market conditions change very rapidly, therefore, it is important to validate this information prior to making career choices or career program decisions. The occupations listed in this document are pertinent to the North Central Texas Region and may not be pertinent to other areas of the state or nation.

©Copyright North Central Texas InterLink, Inc.
candy@interlink-ntx.org
www.interlink-ntx.org

2010~2015 InterLink Targeted Occupations

Targeted Occupations are identified by regional employers as high demand and: meet the following Selection Criteria: 1) \$13.92 median entry level hourly; 2) Growth or high industry demand; 3) Wages listed are regional entry level hourly and regional median entry level hourly. 4) Education time is the minimum required for entry level to the highest expected degree.



Agriculture, Food & Natural Products Careers

Veterinary Technicians & Technologists: Assist Veterinarian and perform medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals. OJT-2 yrs. - \$11.61/13.93



Architecture & Construction Careers

Architects: Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property. 4-10 yrs. - \$17.17/31.03

Carpenters: Build or repair structures using blueprints sketches or building plans. 2-4 yrs. - \$11.01/14.44

Computer Aided Design (CAD): Prepare sketches of ideas, detailed drawings, illustrations, artwork, or blueprints, using computer-aided design equipment. 2-4 yrs. - \$13.42/21.04

Electricians: Read blueprints, design, and install electrical wiring and equipment in all phases of construction. 2-10 yrs. - \$14.31/18.43

Heating/AC Technicians: Climate control professionals that design operate and maintain heating and cooling systems. 1-5 yrs. - \$13.03/17.23

Maintenance Repairers, General Utility: Keep machines, mechanical equipment, and/or structure of an establishment in repair. OJT-4 yrs. - \$9.41/13.97

Operating Engineers & Other Heavy Equipment Operators: Operate power construction equipment. May repair and maintain equipment in addition to other duties. 1-2 yrs + OJT - \$11.52/14.40

Plumbers/Pipefitters/Steamfitters: Assemble, install, altar and repair pipe systems that carry water, steam, air or other liquids or gases. 5 yrs. + OJT. - \$13/33/20.14

Welders/Cutters/Solders/Brazers: Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products. Certification-4yrs. - \$10.50/13.48



Arts, AV Technology & Communication Careers

Multimedia Artists & Animators: Create special effects, animation, or other visual images using film, video, computers, or other electronic tools and media. 2-4 yrs. - \$12.98/17.71



Business Management & Administration Careers

General and Operations Managers: Plan, direct, or coordinate the operations of companies or organizations. 4-10 yrs. - \$25.05/43.77



Education & Training Careers

Teachers, Elementary: Teach basic academic, social, and other formative skills. 4-10 yrs. - \$42,623

Teachers, Secondary/Vocational: Instruct in one or more high school subjects such as English, mathematics, social studies, vocational programs, according to subject matter specialty. 4-10 yrs. - \$42,990

Teachers, Special Education: Teach school subjects to students with learning differences including audibly and visually handicapped students. 4-10 yrs. - \$45,997



Finance Careers

Accountants, Auditors, & Bookkeepers: Examine, analyze, and interpret accounting records to advise and/or prepare financial and budgetary data for individuals or businesses. 4-10 yrs. - \$18.41/27.29

Bookkeeping, Accounting, Auditing Clerks: Compute, classify, and record numerical data to keep financial records complete. Perform any combination of routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining accounting records. OJT-4 yrs. \$10.35/15.45

Financial Managers: Plan, direct, and coordinate accounting, investing, banking, insurance, securities, and other financial activities. 4-10 yrs., \$31.54/48.73



Health Science Careers

Medical & Clinical Lab Technician & Technologists: Perform tests for the detection, diagnosis, and treatment of disease. Technician – 2 yrs, Technologist – 4 yrs., \$22.21/28.55

Medical Records/Health Information Technicians: Compile, process, and maintain medical records of hospital and clinic patients. 2-4 yrs. - \$10.42/13.62

Medical Transcriptionists: Use transcribing machines to transcribe dictated reports of medical personnel and translate medical jargon and abbreviations into their expanded forms. Cert.-2yrs. - \$12.61/17.03

Nurses - Licensed Practical/Vocational: Care for ill, injured, convalescent, and handicapped persons in hospitals, clinics, private homes, and similar institutions. (Note: Many hospitals are moving away from LVN's and hiring RN's & BSN's.) 2 yrs. - \$18.88/19.12

Nurses - Registered Nurses: Administer care to ill or injured persons in hospitals, clinics, private homes, and similar institutions. 4-10 yrs. - \$22.21/28.55

***Patient Care Technicians (Certified) (Also Nurse Assistants/Nurse Aides):** Provide basic patient care under direction of nursing staff. OJT-\$8.25/10.38

Pharmacists: Fill prescriptions and act as member of primary health team. 5-6 yrs. - \$42.40/52.11

***Pharmacy Technicians:** Work under supervision of licensed pharmacists to perform technical and clerical duties of the pharmacy including filling prescriptions. 2 yrs. - \$10.94/13.77

Physical Therapists: Assess, plan, organize, and participate in rehabilitative programs that improve mobility, relieve pain, increase strength, and decrease or prevent deformity of patients suffering from disease or injury. 4-10 yrs. - \$27.40/36.27

Physical Therapist Assistants: Assist physical therapists in providing physical therapy treatments and procedures. 2- yrs. - \$17.81/27.27

Physicians: Diagnose, treat, and help prevent diseases and injuries that commonly occur in patients. 6-10 yrs. - \$34.84/80.00

Physician Assistants: Provide healthcare services typically performed by a physician, under the supervision of a physician. May, in some cases, prescribe medication. Must graduate from an accredited educational program for physician assistants.-6 yrs. - \$21.26/42.26

Radiologic Technologists & Technicians: Use diagnostic imaging to view and diagnose images of the interior of the body. 2-4 yrs. - \$18.81/25.68

Respiratory Care Technicians (Certified): Conduct diagnostic tests of patients' cardiopulmonary functions and give appropriate treatment as ordered by a physician. 1-4yrs. - \$20.21/23.29



Hospitality & Culinary Careers

Chefs and Head Cooks: Plan, price, direct and/or prepare foodstuffs in restaurants. 2-4 yrs. - \$13.42/19.24

Food Service Managers: Plan, direct, or coordinate activities of an organization or department that serves food and beverages. 2-4 yrs. - \$17.50/23.97



Information Technology Careers

Computer Programmers: Convert project specifications and statements of problems and procedures to detailed logical flow charts for coding into computer language. Develop and write computer programs to store, locate, and retrieve specific documents, data, and information. May program web sites. 4 yrs. - \$24.50/21.21

Computer Support Specialists: Provide technical assistance to computer system users in person or remotely including the use of computer hardware and software. 2-4 yrs. - \$13.45/21.25

Computer Systems Analysts: Analyze science, engineering, business, and all other data processing problems for application to electronic data processing systems. May analyze or recommend commercially available software. 4 yrs. - \$23.66/36.91

Database Administrators: Coordinate changes to computer databases, test and implement the database applying knowledge of database management systems. May plan, coordinate, and implement security measures to safeguard computer databases. 2-4yrs. - \$22.07/32.93



Law, Public Safety, Corrections, & Security Careers

Correctional Officers and Jailers (Deputy Guards): Guard inmates in penal or rehabilitative institutions and in transit. 3-6 mos. - \$12.80/15.72

Emergency Medical Technicians/Paramedics: Assess injuries, administer emergency medical care, extricate trapped individuals, and transport to medical facilities. Certification-2 yrs. - \$10.54/14.11

Fire Fighters: Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. 2-4 yrs. - \$16.61/22.52

Paralegal/Legal Assistant: Assist lawyers by researching legal precedent, investigating facts, or preparing legal documents. 2-4 yrs. - \$16.28/22.33

Police & Sheriff's Patrol Officers: Maintain order, enforce laws/ordinances. Patrol, direct traffic, issue summons, investigate, apprehend, and arrest. 1-4 yrs. - \$18.54/24.37



Manufacturing Careers

Advanced Manufacturing Machinist Technician - includes Computer Numeric Control (CNC): Use machine tools and technology to produce precision products for aerospace parts, automobile parts, machine parts, and compressors. 1-2 yrs. - \$9.50/13.93



Marketing, Sales & Service Careers

Advertising/Marketing Sales Managers: Formulate marketing policies, direct sales activities, plan, organize, and direct advertising and public relations activities. 4-10 yrs. - \$23.74/43.54



Science, Technology, Engineering & Mathematics Careers

Aerospace Engineers: Perform designing, constructing, and testing aircraft, missiles, and spacecraft including basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture. 4-10 yrs. - \$44.39/45.33

Civil Engineers: Plan, design and oversee construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, water and sewage systems, and waste disposal units. Includes architectural, structural, traffic, ocean, and geo-technical engineers. 4-10 yrs. - \$24.42/34.87

Computer Software Applications Engineers and Systems Software Engineers: Research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications. 4-10 yrs., \$30.22/41.91 & \$29.26/30.19

Electrical & Electronic Engineers: Design, develop, test, and supervise the manufacturing and installation of electrical and electronic equipment, components, or systems for commercial, industrial, military, or scientific use. 4-10 yrs. - \$40.38/41.15

Electrical & Electronic Engineering Technicians: Help to design, develop, test, and manufacture electrical and electronic equipment May work in product evaluation and testing. 2-4 yrs. - \$18.18/25.68

Mechanical & Industrial Engineers: Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment and systems. 4-10 yrs. - \$27.00/38.39

~More Targeted Occupations on following page~