

New and Emerging Occupations

January 2019

What causes new occupations to emerge, develop or evolve:

- Technological Change (e.g. – advances in computer & scientific knowledge)
- Demographic Shifts (e.g. - increased immigration, aging of population)
- New tasks (e.g. - managing websites or capitalizing on social media)
- Laws (e.g. – environmental regulations, ADA legislation)
- Business Practices (e.g. - need for videoconferencing technicians)
- Innovation (e.g. – new products or ways of doing things)
- Entrepreneurial Spirit (e.g. – new ways to earn money)

Here are some examples:

Artificial Intelligence Specialists program computers “to think”

Behavioral Geneticists research and study the inheritance of traits

Bioinformatics Technicians blend biotechnology with computer statistics

Biomedical Engineering Technicians implement medical equipment technologies

Biostatisticians – look for patterns of disease emergence and persistence

Business Recovery Planners protect & prepare businesses for disasters

Child Life Specialists provide support for children & families in stressful situations

Computational Biologists develop ways to analyze data such as decoding a person’s genome

Computational Linguists develop applications such as translation & voice recognition

Content Managers use systems to coordinate procedures to manage workflow in a collaborative environment

Cybersecurity Technicians enhance network security

Cytogenetic Technologists – look for indicators of genetic abnormalities

Data Miners extract useful tidbits and patterns from mountains of data using computer analysis

Data Security Engineers and Analysts safeguard data

Dexa Technologists conduct bone density tests

Diversity and Inclusion Strategists and Officers foster practices that promote diversity

Drone Pilots and Drone Traffic Controllers to coordinate, monitor and instruct drones

Emergency Planners help businesses and agencies prepare plans for disaster scenarios

Energy Auditors conduct energy audits of buildings, systems and processes

Energy Brokers purchase or sell energy or energy derivatives for customers

Environmental Economists – determine the economic impact of policy decisions

Ergonomists assess, analyze & come up with solutions to prevent workplace injuries

Ethics Officers give advice to keep businesses and government and hospitals ethical

Gene Programmers will use digital genome maps to customize prescriptions

Genetic Counselors help patients understand & evaluate genetic information

Geographic Information Systems (GIS) Technicians manage data from global positioning satellites

Geriatric Care Managers help family members make decisions about aging relatives

Global Sourcing Managers are logistics experts with international business skills

Green Collar Consultants help companies become and stay green

Health Informatics Technicians help analyze electronic medical records data

Immigration Specialists assist companies or individuals with immigration issues

Industrial Carbon Footprint Reduction Specialist is a sustainability specialty

Information Architects & Course Architects create distance learning

Interior Redesigners remodel your home with what you already have

Legal Videographers videotape depositions

Logistics Analysts – use advanced technology to analyze product delivery

Mechatronics Engineers – design systems to automate industrial tasks

Medical Imaging Technicians measure and record the health of body systems

Offshoring Managers – coordinate offshoring efforts of a company

Patient Advocates help patients and their families navigate the healthcare system.

Personal Care Coordinators help patients advocate for & obtain optimal health care services

Personal Chefs & Corporate Concierges reflect needs of high income households

Pharmers raise genetically engineered crops and livestock

Precision Agricultural Technicians – use GPS and GIS technology for maximum efficiency

Privacy Officers set & enforce policies about confidentiality on the Internet

Renewable Energy Technicians install, inspect or repair green power systems

Resident Assessment Specialists test medical & physical functioning of seniors

Robot Trainers use algorithms to train computers

Robotics Technicians keep robots functioning

Simulation Developers use software to create virtual worlds and training materials

Social Media Strategists help a business decide how to capitalize upon social media

Steganographers study computer files to look for hidden messages

Stenocaptioners type closed captions for television

Sustainability Analysts look at long range effects on the environment

Telemedicine Technicians provide medical diagnosis & treatment via satellite

Traffic Analysts are logistics specialists who coordinate movement of goods

Usability Specialists make websites, software & databases easier to navigate

Utilization Review Coordinators (Restorative Health Coordinators) work in HMOs

Video Journalists produce visual stories for a station's website

Videoserver Technicians set up & service equipment used in videoconferencing

Virtual Business Service Providers offer business services from their home

Wellness Coaches helps companies keep their employees healthy or helps individuals stay healthy

Wireless Communication Technicians help build & maintain infrastructure supporting wireless communication