

Emerging Careers

Careers dictated by the 4th Industrial Revolution. Areas expected to gain prominence include – Nanotechnology, Artificial Intelligence, The Internet of Things, Robotics, BioTechnology, 3D Printing to name a few

Astrobiology

Astrobiology is the interdisciplinary study of life in the universe, combining aspects of astronomy, biology and geology. It is focused primarily on the study of the origin, distribution and evolution of life

Behavioral Geneticist

Behavioral genetics is the field of biology that studies the role of genetics in animal (including human) behavior. The field is an overlap of genetics, ethology and psychology. Classically, behavioral geneticists have studied the inheritance behavioral traits.

Bioinformatics and Computational Biology

Bioinformatics and computational biology involve the use of techniques including applied mathematics, informatics, statistics, computer science, artificial intelligence, chemistry, and biochemistry to solve biological problems usually on the molecular level. Two important large-scale activities that use bioinformatics are genomics and proteomics.

Business Ethics

Business ethics is a form of applied ethics that examines ethical principles and moral or ethical problems that arise in a business environment. In the increasingly conscience-focused marketplaces of the 21st century, the demand for more ethical business processes and is increasing. Also, pressure is applied on industry to improve business ethics through new public initiatives and laws.



Carbon Management Consultant

Carbon Management Consultants are usually MBA's in an engineering or project management specialty--are an integral part of helping businesses to reduce their carbon footprint, which everyone's concerned with these days, thanks to climate change and tough legislation.

Green / Environmental Career Fields

The green careers/clean technology is a fast growing industry with many emerging fields. The impact of climate change has spawned many new technologies and industries.

Computer Animation and Digital Imaging

Computer animation is an eclectic science that uniquely combines mathematics, computer science, fine art, classical animation, physics, biomechanics, and anatomy, to name but a few fields. With a diverse and exciting set of applications to such areas as entertainment (movies, video games), medical diagnostics, and fine arts (dancing, sculpture, painting), there are many avenues to explore.

Data Mining

Data mining involves the discovery of patterns and previously unknown information in large data sets. Emerging career opportunities will be found in applications of data mining in, for example, security, forensics, e-commerce, and sciences, such as genomics, astrophysics, and chemical engineering.

Emergency Management Specialists

Disaster management scope includes both pre and post disaster event responses. The Pre disaster activities include analysis of disaster risks, back- up plan or strategies to reduce the risk to a minimum, disaster preparedness planning, conduct public education and training on how to response to the crisis when it happen. During an emergency, disaster management professionals typically are in charge to coordinate activities between local community agencies, government bodies and relief agencies such as hospital and rescues team to provide the needed supports and material to the victims as quickly as possible

Experience Designers

Experience design is the practice of designing products, processes, services, events, and environments each of which is a human experience -- based on the consideration of an individual's or group's needs, desires, beliefs, knowledge, skills, experiences, and perceptions

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Human Factors

Human factors is the science of understanding the properties of human capability. The application of this understanding to the design and development of systems and services. The art of ensuring successful application of Human Factors Engineering.

Human-Computer Interaction

Human Computer Interaction (HCI) is a branch of Informatics that includes the study of human-centered design, development and implementation of usable and socially acceptable information technologies.

Materials Science

Materials science is the study of the properties, processing and production of a broad range of existing and new materials, including metallic alloys, composites, liquid crystals, biological materials, and thin films. The rational design and analysis of materials depends on mathematical models and computational tools. Career opportunities abound in science, manufacturing, and materials design for applications in fields such as aerospace, engineering, electronics and biology.

Nuclear Energy

Nuclear energy is any nuclear technology designed to extract usable energy from atomic nuclei via controlled nuclear reactions. Today, more than 15% of the world's electricity comes from nuclear power, over 150 nuclear-powered naval vessels have been built, and a few radioisotope rockets have been produced.

Offshoring/ Outsourcing

Offshoring describes the relocation of business processes from one country to another. Outsourcing is subcontracting a process, such as product design or manufacturing, to a third-party company. The decision to offshore/outsource is often made in the interest of lowering firm costs, redirecting or conserving energy directed at the competencies of a particular business, or to make more efficient use of land, labor, capital, (information)technology and resources.

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Simulation Developers

Computer simulation uses computer programs, or networks of computers, that attempt to simulate an abstract model of a particular system. Computer simulations have become a useful part of mathematical modeling of many natural systems in physics (computational physics), chemistry and biology, human systems in economics, psychology, and social science and in the process of engineering new technology, to gain insight into the operation of those systems, or to observe their behavior.

Wellness Coach

Fitness trainers have been popular for more than a decade, but more and more people now also want support in their efforts to eat less, stop smoking or drinking, and reduce stress. These people are starting to seek out wellness coaches. Wellness coaches are being hired not only by individuals but by employers and health insurers as a likely cost-beneficial perk for their employees.

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