

# Careers that defy inflation in the 1980's

It is no secret that the United States is headed into a recession and that young people can look to "twin evils"- inflation and high unemployment. Now, more than ever before, young people should prepare for careers that are "recession proof." Recession proof careers are those that: will withstand the present economic crisis; will prosper if more beneficial times arrive; and will make significant contributions to our communities in the U.S. and abroad.

The following is a list of "recession proof" careers compiled by *The Black Collegian*. Although it is not exhaustive, it indicates fields in which Blacks can find satisfying and productive work.

## ADMINISTRATIVE CAREERS

**Bank Officers and Managers:** Banks have presidents who direct operations and one or more vice presidents who control certain departments like trust or credit and a comptroller or cashier who is generally responsible for all bank property. Banks employed over 300,000 officers and managers in 1976.

Bank officers make decisions within a framework of policy set by the board of directors and laws and regulations. They must have knowledge of business and how it relates to banking.

**Health Services Administrators:** Administrators coordinate the functions and activities of the health organization. They make major decisions on matters such as the need for additional personnel and equipment, space and budgets. Some administrators, who manage hospitals or nursing homes, oversee nursing, food services, and training.

## DATA PROCESSING CAREERS

**Computer Operator:** The Computer operator is trained to prevent and correct operating malfunction of a computer. The operator also starts the computer system by reading in stacks of computer cards.

**Computer Programmer:** The computer programmer writes the instructions that command the computer to do the work it needs to do. Coding for the computer is written in special languages.

**Systems Analyst:** Systems analysis is the profession of studying business systems to make them more efficient. He designs computer systems that provide the best solution for the job to be done.

## ENGINEERING CAREERS

Engineers develop and design scientific equipment and consumer products such as television sets and automobiles, design construction projects such as buildings or bridges, and contribute to the technological progress of the nation.

**Agriculture Engineers:** These engineers manage soil and water resources, conservation, design and operation of agricultural equipment.

**Biomedical Engineers:** Biomedical engineers solve medical and health related engineering problems. Many design complicated medical instruments such as artificial hearts and kidneys.

**Ceramic Engineers:** Ceramic Engineers process clay and other non-metallic mineral ceramic products such as bricks, glassware, coating to electronic component, and supplies used in body sensors and monitors.

**Chemical Engineers:** They design chemical plants and equipment, develop ways to manufacture chemicals and chemical products.

**Industrial Engineers:** They set up and maintain data processing and manufacturing operations, develop plant layouts and install safety programs.

**Material Science Engineers:** They do research on construction materials such as asphalt, concrete, timber and advise builders on materials.

**Mechanical Engineers:** They concentrate on the use and conversion of natural resource energy into useful energy and design machines to cut down on manual labor.

**Metallurgical Engineer:** They develop methods to process and convert metals into useful products.

**Mining Engineers:** These engineers extract and prepare minerals for manufacturing industries to use design mines and work in environment, pollution control and research.

**Petroleum Engineers:** They are involved in exploring, drilling for and producing oil and natural gas.

## ENGINEERING AND SCIENCE TECHNICIANS

Knowledge of science, math and industrial machinery enables engineering and science technicians to work in all phases of business, and government. Technicians often apply the theoretical knowledge developed by engineers and scientists to actual situations.

One of the largest areas of employment is setting up experiments and calculating the results of using complex instruments. In production they prepare specifications, insure product quality and investigate production problems.

Areas for engineering and science technicians include: Air-conditioning, heat and refrigeration; aeronautical technology; civil engineering; electronics; chemical technology; meteorological technology; hydrologic technological, agricultural and biological technicians.

## PHYSICAL SCIENCE CAREERS

These scientists concentrate on the basic laws of the physical world. They include astronomers, chemists, hydrologists, etc.

**Astronomers:** They answer questions about the origin of the universe and study the structure and evolution of the universe and stars.

**Chemists:** They investigate the properties and composition of matter and develop new substances.

**Environmentalists:** They plan and conduct programs related to sanitation and promote the maintenance of health standards. They are concerned with enforcement of laws regarding handling, preparation and dispensing of food.

**Geologist:** They study the structure of history and crust of the earth to determine natural resources.

**Health Physicists:** Radiation or radiological physicists, they detect radiation and apply safety standards, plan and organize health programs for atomic energy facilities, determine inspection standards.

**Hydrologists:** They study the underground and surface water of the earth, and study rainfall, glaciers and snow. They are concerned with flood control, soil erosion and irrigation.

**Metallurgists:** They specify and control the durability and quality of steel.

**Meteorologists:** They study the atmosphere and determine the effect on our environment including weather.

**Oceanographers:** The primary interest is with the oceans, their physical make-up, and the marine environment as related to sea life.

## LIFE AND BIOLOGICAL SCIENCE CAREERS

**Agronomists:** Agronomists concentrate on growth, breeding and improvements of field crops and develop seed production.

**Aquatic Biologists:** They study the interaction of plants and animals living in water.

**Botanists:** They study plant life. Some specialize in plant diseases.

**Catographers:** These scientists develop maps of earthquake areas and other specialized maps.

**Ecologists:** They study the joint relationship among organisms and their environments. They are concerned with environmental influences such as rainfall and temperature on organisms. They determine the level of pollution and measure the radioactive content.

**Entomologists:** They study insects and their relationship to farming.

**Environmental Engineers:** They specialize in the application of engineering techniques to the problems of improving and protecting living conditions.

**Fishery Biologists:** Fishery biologists study the problems of growth and reproduction of fish and shellfish and maximize fishing yield.

**Microbiologists:** The study bacteria and microorganisms of their relationship to human, animal and plant health.

**Noise Control Specialist:** They research the effects of noise on the environment and on human health.

**Pharmacologists:** They study the effects of drugs and other materials on the tissues and physiological processes in animals and human beings.

**Physiologists:** They research the structure and function of animal organs, tissues and cells and the effects of life processes as they relate to environmental problems.

**Plant Pathologists:** They conduct research in nature, cause and control of plant products. They compare healthy and diseased plants to determine disease symptoms.

**Soil Scientists:** They study the physical, chemical and biological make-up of soil and classify types of soil.

**Toxicologists:** They detect and analyze poisonous substances in the environment.

**Zoologists:** They concentrate on animal life, its origin, behavior and life processes.

## MEDICAL AND ALLIED HEALTH TECHNICIANS

There are many categories in the medical and allied health professions including 34 principal specialty areas from physicians, plus various kinds of nursing and technical options. For more information send for the booklet, "200 Ways to Put Your Talent to Work in the Health Field," published by the National Health Council, 1740 Broadway, New York, NY 10019.

## ACCOUNTANTS AND AUDITORS

Accountants prepare and analyze financial reports. There are three major types of accounting work that accountants do for the public. Management accountants handle the financial records of the company they work for. Government accountants examine the records of government agencies and audit private businesses and individuals who deal with the government.

Many accountants in the federal government work as Internal Revenue agents, investigators and bank examiners.

For information: **Administrative Careers:** American Bankers Association, 1120 Connecticut Ave. NW, Washington, D.C. 20036 - **Association of University Programs in Health Administration,** One DuPont Circle, NW, Washington, D.C. 20036.

**Data Processing Careers:** Data Processing Management Association, 505 Busse Highway, Park Ridge, IL 60068.

## PHYSICAL THERAPIST

Full time position available for Oregon Licensed Physical Therapist. Recent graduate acceptable but 1-2 years experience preferred. Out-patient experience helpful.

Apply 9am-1pm Monday-Friday:  
Personnel Department

### BESS KAISER MEDICAL CENTER

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