



CAREERS IN GEOSCIENCE

GEOSCIENCE DISCIPLINES:

- GEOLOGY
- GEOPHYSICS
- HYDROLOGY
- MARINE SCIENCE
- ATMOSPHERIC SCIENCE
- PLANETARY SCIENCE
- METEOROLOGY
- ENVIRONMENTAL SCIENCE
- SOIL SCIENCE

SOURCE: NATIONAL SCIENCE FOUNDATION



WHO EMPLOYES GEOSCIENTISTS?

- GOVERNMENT AGENCIES
 - FEDERAL
 - STATE
 - LOCAL
- PRIVATE INDUSTRY
- ENVIRONMENTAL CONSULTANTS
- ACADEMIC INSTITUTIONS
- MUSEUMS

NATURAL HAZARDS STUDIED BY GEOSCIENTISTS

- VOLCANOS
- EARTHQUAKES
- FLOODS
- LANDSLIDES
- HURRICANES
- TSUNAMIS

EDUCATION

FUNDAMENTAL COURSES:

- CHEMISTRY
- PHYSICS
- BIOLOGY
- MATHEMATICS
- COMPUTER SCIENCE

SPECIALIZED COURSES:

- ECONOMIC GEOLOGY
- METEOROLOGY
- ENVIRONMENTAL GEOLOGY
- FIELD MAPPING
- MINERALOGY
- PALEONTOLOGY
- PETROLOGY
- HYDROLOGY
- SEDIMENTOLOGY
- STRATIGRAPHY
- STRUCTURAL GEOLOGY
- SEISMOLOGY

GENERAL COURSE STUDY TO BROADEN KNOWLEDGE:

- HISTORY
- LITERATURE
- PHILOSOPHY
- ECONOMICS
- LANGUAGES

WHAT DOES A GEOSCIENTIST DO ?

- EXPLORES FOR WATER, OIL, MINERAL, AND GAS RESOURCES
- SEARCHES FOR NEW SOURCES OF MINERALS AND HYDROCARBONS
- IDENTIFIES MINERAL DEPOSITS SUCH AS:
 - GOLD, COPPER, IRON, COAL, OIL, AND GAS
- MAKES OBSERVATIONS
- COLLECTS SAMPLES
- TAKES MEASUREMENTS
- CONDUCTS LABORATORY ANALYSES
- CONDUCTS RESEARCH
- TEACHES OTHERS
- WRITES AND EDITS PUBLICATIONS
- EXPLORES THE SUBSURFACE BY DRILLING
- PREPARES MAPS AND CROSS SECTIONS OF THE EARTH
- ATTEMPTS TO PREDICT HAZARDS

GEOSCIENTISTS WORK TO . . .

- PROTECT OUR NATURAL RESOURCES
- USE OUR NATURAL RESOURCES WISELY
- IMPROVE THE QUALITY OF OUR WATER SYSTEMS
- CONSERVE SOILS TO MAINTAIN AGRICULTURAL PRODUCTIVITY
- UNDERSTAND GLOBAL CLIMATE PATTERNS
- PREDICT THE BEHAVIOR OF EARTH SYSTEMS