As the field of science and technology expand, so do the career opportunities. The physical and life sciences, the applied sciences, and the high technology industries can provide opportunities for those who receive appropriate training and degrees. This guide is intended to provide those with an interest in pursuing careers in science and technology with a listing of some of the materials included in the Library of Congress that deal with such careers. It includes descriptions of jobs and careers, the training and courses required for them, the potential job markets, and rewards that are possible in choosing such a career. The document lists the subject headings used by the Library of Congress in cataloging information on career opportunities in science and technology. It also contains citations of materials categorized as: (1) brief introductions; (2) basic texts; (3) additional titles; (4) handbooks and encyclopedias; (5) other bibliographies; (6) Washington/Baltimore area job opportunities; (7) government publications; (8) abstracting and indexing services; (9) journal articles; (10) technical reports; and (11) additional sources of information. (TW)
LC Science Tracer Bullet

Science Reference Section, Science and Technology Division
Library of Congress, 10 First Street, S.E., Washington, D.C. 20540

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CAREER OPPORTUNITIES IN SCIENCE AND TECHNOLOGY
Compiled by Joanna W. Evans

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SCOPE: As the fields of science and technology expand, so do the career opportunities. The physical and life sciences, the applied sciences, and the high technology industries provide stimulating and enriching opportunities for those with vocational training, college, and advanced degrees.

This guide is intended for those who wish to investigate career possibilities and opportunities in science and technology. Sources providing descriptions of jobs and careers in these areas, the training and courses of study required, the potential job markets, and the rewards that are possible in choosing such a career are given. Not meant to be a comprehensive bibliography, this compilation is designed—as the name of the series implies—to put the reader "on target."

SUBJECT HEADINGS used by the Library of Congress, under which books on career opportunities in science and technology can be located in most card, book, and online catalogs, include the following:

SCIENCE—VOCATIONAL GUIDANCE (Highly relevant)
See also specific disciplines, e.g., BIOLOGY—VOCATIONAL GUIDANCE,
ENGINEERING—VOCATIONAL GUIDANCE
TECHNOLOGY—VOCATIONAL GUIDANCE (Highly relevant)
HIGH TECHNOLOGY INDUSTRIES—VOCATIONAL GUIDANCE (Relevant)
See also specific industries, e.g., AEROSPACE INDUSTRIES—
VOCATIONAL GUIDANCE, ENERGY INDUSTRIES—VOCATIONAL GUIDANCE, ELECTRONIC INDUSTRIES—VOCATIONAL GUIDANCE
WOMEN IN SCIENCE (Relevant)
See also specific disciplines, e.g., WOMEN IN AERONAUTICS, WOMEN IN MEDICINE
SCIENTISTS—EMPLOYMENT (Related)
See also specific disciplines, e.g., PHYSICIANS—EMPLOYMENT
WOMEN SCIENTISTS (Related)
See also specific disciplines, e.g., WOMEN ENGINEERS, WOMEN GEOLOGISTS
CAREER EDUCATION—UNITED STATES (More general)
JOB VACANCIES—(Name of city or state) (More general)
SCIENTISTS—UNITED STATES (More general)
VOCATIONAL GUIDANCE—UNITED STATES (More general)
See also specific cities or states, e.g., VOCATIONAL GUIDANCE—MARYLAND, VOCATIONAL GUIDANCE—WASHINGTON METROPOLITAN AREA
VOCATIONAL GUIDANCE FOR WOMEN (More general)
BASIC TEXTS

Career employment opportunities directory: a guide to career employment opportunities for graduates in the liberal arts and social sciences. Editor, Alvin Renetzky; associate editor, Cindy Turnage. 2nd ed. Santa Monica, Calif., Ready Reference Press, c1985. 4 v. HF5382.5.U5C265 1985


Contents: v. 1. Reviewing career fields.--v. 2. Selecting a career.--v. 3. Selecting a technician's career.


No more published? HF5382.F44 SSRR

Handbook and guide for selecting a career and preparing for the future. New York, Research and Education Association, c1984. 481 p. HF5382.5.U5H34 1984 SSRR


Provides information needed to make a career decision and plan an appropriate education that will lead to an unusual occupation. Among the careers discussed are those of radiographer, aerospace scientist, tape librarian, and inhalation therapist.

SPECIALIZED TITLES


Bibliography: p. 233.


Bibliography: p. 121-122.


Discusses training for and opportunities in a wide variety of environmentally focused career fields, from biology and industrial hygiene to wildlife conservation and landscape architecture.


Examines 20 careers related to animal care, many of which require little or no post-high school training.


Includes bibliographies.


Describes new developments in the field of energy and the challenges of reconciling limited resources with increasing needs. Also discusses various career opportunities in this field, the necessary preparation, and future potential.

*Available in the reference collection, Science Reading Room


Woodburn, John H. Opportunities in chemistry. Skokie, Ill., VGM Career Horizons, c1979. 130 p. QD39.5.W64
Bibliography: p. 129-130.
Examines the education requirements, necessary personal qualities, and employment opportunities for many jobs related to chemistry.

---- Opportunities in energy careers. Lincolnwood, Ill., VGM Career Horizons, c1985. 150 p. TJ163.2.W64 1985
Bibliography: p. 149-150.

RELATED TITLES


Directory of internships, work experience programs, and on-the-job training opportunities. Editor, Alvin Renetzky; assistant editor, Rebekah Berger. 2nd ed. Santa Monica, Calif., Ready Reference Press, c1986. 2 v. HF5549.5.T7D55 1986


Rev. ed. of The engineer and his profession, 2nd ed., 1975.

Contains annotated bibliographies.

Bibliography: p. 53-54. Q149.U5P76 1984


GOVERNMENT PUBLICATIONS


Biennial.

WASHINGTON/BALTIMORE METROPOLITAN AREA JOB OPPORTUNITIES

See particularly 'Appendix "B" IEEE members' employers' for D.C., Maryland, and Virginia.


Summer employment directory of the United States. 1954- Cincinnati, Ohio, National Directory Service, Inc. HF5382.5.U5S76 Contains listings for D.C., Maryland, and Virginia.


ABSTRACTING AND INDEXING SERVICES that index relevant journal articles and other literature are listed below. Some suggested terms are given as aids in searching.

The following indexes are available in most public and college libraries.

**Applied Science & Technology Index** (1913-) Z7913.I7*
See: Job Selection
Professions
Vocational Guidance

**General Science Index** (1978-) Z7401.G46*
See: Job Selection
Scientists
Vocational Guidance

**Government Reports Announcements & Index** (1946-) Z7405.R4G64*
See: Careers
Job Analysis
Jobs

**Magazine Index** (1982-) uncataloged
See: Science--Vocational Guidance
See also Computers, Veterinarians, etc.--Vocational Guidance,
Engineers, etc.--Employment

**Monthly Catalog of United States Government Publications** (1895-)
Z1223.A18*
See: Vocational Guidance
See also Aeronautics--United States--Vocational Guidance,
Meteorology--United States--Vocational Guidance, etc.

**Readers' Guide to Periodical Literature** (1900-) AI3.R45
See: Scientists--Supply and Demand
See also Geology, etc.--Supply and Demand, Occupations

**Resources in Education** (1966-) L11.R28
See: Science Careers
See also Health Occupations, Farm Occupations, etc.

A JOURNAL that regularly lists employment opportunities in the fields of science and technology is

**Career opportunity update** (uncataloged) SSRR

**REPRESENTATIVE JOURNAL ARTICLES**


Includes sections on continuing education, employment market, salaries, and career planning.

Note: Consult reference librarian for location of abstracting and indexing services in the Science Reading Room.


SELECTED TECHNICAL REPORTS, sold by the National Technical Information Service, Springfield, Virginia 22161. Include the following:


**Available in microform collection, Science Reading Room.
SELECTED MATERIALS available in the Science Reading Room pamphlet boxes include:


Describes astronaut candidate program.


ADDITIONAL SOURCES OF INFORMATION

American Association for the Advancement of Science (AAAS)
Office of Opportunities in Science
1333 H Street, N.W.
Washington, D.C. 20005
Telephone: (202) 326-6610

National Science Foundation
Public Information Branch
1800 G Street, N.W.
Washington, D.C. 20550
Telephone: (202) 357-9498

Scientific Manpower Commission
1776 Massachusetts Avenue, N.W.
Washington, D.C. 20036
Telephone: (202) 223-6995