

Research Guide for



Chemical Engineering Careers

Background Resources

Reference books are excellent places to begin your research. Need an overview of your topic? An encyclopedia article will give a terrific summary of (or introduction to) your subject area – and, at the end of the article, the bibliography will list books and articles for further reading and research. Both paper and electronic reference resources are available.

Career information center v.6 Engineering, science, and technology HF5382.5.U5 C32 1999 Reference (Main)

Occupations, 2000 [electronic resource]

Encyclopedia of careers and vocational guidance
HF5381 E52 2003 Reference (Main)

Guide for occupational exploration

HF5382.5.U5 G83 2001 Reference (Main)

Web Resources

Online resources, especially government and society related publications are always helps. You might want to start at the Libraries' Home page where librarians have taken the time to pull together some of the best web sites for course work at the University of Arkansas.

- ✓ [Career Development Center](http://career.uark.edu/)
http://career.uark.edu/
- ✓ [Employment Opportunities](http://hr.uark.edu/employment/)
http://hr.uark.edu/employment/
- ✓ [Engineering](http://libinfo.uark.edu/engineering)
http://libinfo.uark.edu/engineering
- ✓ [Engineering Central Home Page](http://www.engcen.com/)
http://www.engcen.com/

Books and reviews

Books are excellent sources of historical and background information. Reviews (and review articles) can provide an overview of the topic with extensive citations to the primary literature. Use subject terms like [Engineers -- United States](#) OR

[Engineers -- vocational guidance](#)

From scarcity to visibility: gender differences in the careers of doctoral scientists and engineers **Q149.U5 F76 2001 Main**

How to succeed as an engineer : a practical guide to enhance your career **TA157 .Y89 1998 (Main)**

The innovators: the engineering pioneers who made America modern **TA15 .B53 1996 Main**

It pays to be an engineer **NAS 1.2:En 3/3 US DOC (Main)**

The PhD factory: training and employment of science and engineering doctorates in the United States **LB2386 .G61 2001 Main**

Science and engineering graduates: career advancement and career change

LB1028 .E317 (Main)

The science and engineering workforce and national security **[electronic resource]**

Who is unemployed? [microform]: factors affecting unemployment among individuals with doctoral degrees in science and engineering **NS 1.2:UN 2/5 US DOC (Main)**

Electronic Reference
Resources

(from our top 10 list)

[Access Science \(McGraw Hill\)](#)

Searchable access to the full text of the Encyclopedia of Science & Technology, including recent research developments, biographies, data, tables, news references, illustrations and related links.

Other Excellent Online Reference
Resources

[ACS Career Resources](#)

American Chemical Society web resource including industry surveys, salary calculators, and employment prospects.
<http://chemistry.org/portal/Chemistry?PID=career.html&DOC=careers\facts.html>

[Occupational Outlook Handbook, 2004-05 Edition](#)

a nationally recognized governmental source of career information including working conditions, training and education needed, earnings, and expected job prospects.

<http://www.bls.gov/oco/>

Identifying Articles

Periodical indexes (including online databases) provide the most efficient subject access to journals, magazines & newspapers. Some of these indexes are print, and some electronic (online). Access the online resources from the University of Arkansas Library website (<http://libinfo.uark.edu/>). Use the **Resource Finder** to quickly locate the links to the database you need.

Database	Coverage	Access information
Ebsco Academic Search Premier scholarly, multi-discipline, full text database. Good coverage of engineering trade journals and some technical academic journals. <i>Hint: Add Business Source Premier to search chemical engineering related business sources.</i>	1990 – current with some historical materials back to the 1960s Covers more than 4000 publications, many scholarly, with full text articles from over 3000 titles.	Library home page Top Ten Electronic Resources and Databases
For more technical topics		
Compendex is an online version of Engineering Index, It encompasses all engineering disciplines as well as related fields in the sciences and management.	1884 – current. Covers 5000 journals, significant published proceedings of engineering and technical conferences, and selected technical reports and books	Library home page Resource Finder Search for Compendex (part of Engineering Village)
INSPEC is the database for physics, electronics and computing corresponds to the three Science Abstracts print publications: Physics Abstracts, Electrical and Electronic Abstracts, and Computer and Control Abstracts. Covers scientific and technical journals and conference proceedings. Includes some books, reports, and dissertations	1898 - current Covers 3,500 scientific and technical journals and 1,500 conference proceedings	Library home page Resource Finder Search for INSPEC (part of Engineering Village)
SciFinder Scholar (Chemical Abstracts) is an easy-to-use interface to Chemical Abstracts and related databases. requires special software and you must be on campus or using your campus dial-up	CAplus Covers the full spectrum of chemistry-related information, containing references to articles from 8,000 journals, patents, conference proceedings, dissertations, technical reports, books and more published from 1907 to the present	Library home page Resource Finder Search for Chemical Abstracts or CA Plus requires special software and you must be on campus or using your campus dial-up

Finding Journals

Many of the articles in the databases above are *not* linked directly from the database. You need to find an electronic or *paper* copy of the journal containing your article. **Infolinks: The Library Catalog** (<http://library.uark.edu/>) is the most accurate listing of journals we own or access. If the Libraries does not subscribe to the journal, a copy of the article can be requested through **ILLiad**, our InterLibrary Loan service.

Contact the reference desk in Mullins Library at 479-575-6645 for immediate assistance

My web page is at <http://libinfo.uark.edu/engineering/>.

