

TECHNOLOGY & ENGINEERING LIBRARY RESEARCH GUIDE

INTRODUCTION

The Department of Technology & Engineering offers courses leading to the Bachelor of Science degree for the computer Integrated Manufacturing System Technology, Electronics Technology, Occupational Safety and Health Technology, Technology and to the Master of Science degree for the Manufacturing System Technology. Most related print sources (such as books, periodicals) are located on 4th floor and 10th floor in Houston Cole Library (HCL), electronic sources (such as databases) can be accessed via computer stations on each floor.

PRINT SOURCES

Books and print journals are the main print sources in the HCL providing a foundation for research. Books and journal articles may also contain useful bibliographies which may lead to additional sources of research. When looking for print materials, consult the Library of Congress Subject Headings to select the proper term(s) to use as subjects under "Library Catalog". Some possible subject headings can be: Technology, Engineering, Industrial safety, Industrial management, Manufacturing processes, electronics, and etc. "Keyword Anywhere" & "Title" searches can also be conducted under the "Library Catalog" (<http://library.jsu.edu/>). The following table shows technology & Engineering in the Library of Congress Classification system:

TI-995	Technology (General)	TA1-2040	Engineering (General)
TC1-978	Hydraulic engineering	TD1-1066	Environmental technology. Sanitary engineering
TE1-450	Highway engineering. Roads and pavements	TF1-1620	Railroad engineering and operation
TG1-470	Bridge engineering	TH1-9745	Building construction
TJ1-1570	Mechanical engineering and machinery	TK1-9971	Electrical engineering. Electronics. Nuclear engineering
TL1-4050	Motor vehicles. Aeronautics. Astronautics	TN 1-997	Mining engineering. Metallurgy
TP1-1185	Chemical technology	TR 1-1050	Photography
TS1-2301	Manufactures	TT 1-999	Handicrafts. Arts and crafts
TX1-1110	Home economics	HD28-9999	Industries. Land use. Labor
HF1-6182	Commerce		

JSU students can also use ALLIES (Alabama Libraries Exchange Services, <http://library.jsu.edu/cgi-bin/Pwebrecon.cgi?PAGE=dbPage>) to borrow circulating books from UAB Sterne Library, University of Alabama, Auburn University, Auburn University at Montgomery, either on-site with the student ID or by requesting the items through the library catalog.

ELECTRONIC RESOURCES

Electronic Databases are the main electronic sources in the HCL providing indexes, full-text books, articles, statutes, and legal cases, etc. To access the HCL subscribed databases off-campus, your student ID and your Last name are required for log-in at: <http://www.jsu.edu/library/resources>. The following table lists some commonly used databases for your research:

Database Title	Description	Full Text?
ACM Digital Library	Journal articles from ACM journals, magazines, and conference proceedings.	Yes
Academic Search Elite	Journal articles in all subject areas.	Yes
Applied Science Full Text	Journal articles in the applied sciences and technology.	Yes
Elsevier ScienceDirect	Journal articles in a variety of subject areas, but the strengths of the database currently lie in: life sciences, engineering, earth sciences, pharmacology, and textiles.	Yes
Emerald Fulltext	Journal articles related to management issues in a variety of subject areas.	Yes
Expanded Academic ASAP	Scholarly journals, news magazines, and newspapers	Yes
NTIS's DARTS	Governmental technical reports in all subject areas.	Yes
Vocational Search	Journal articles in vocational and general subjects.	Yes

Some journals are (A detailed list of journal is available upon request):

Journal of Hazardous Materials (Call Number: T55.3.H3J68)

Risk Analysis (Call Number: T174.5.R55)

Journal of Manufacturing Science and Engineering (Call Number: TA1.J634)

American Industrial Hygiene Associational Journal (Electronic)

Applied Ergonomics (Electronic)

Applied Occupational and Environmental Hygiene (Electronic)

Human Factors (T58.A2H8)

Journal of Safety Research (HV675.A1J68)

Professional Safety (T55.A1 A418a)

Scientific American (T1.S5)

Popular Mechanics (T1.P77)

Work and Stress (Electronic)

OTHER RELATED SOURCES

American National Standards Institute (ANSI): (<http://www.ansi.org/>): Official US standards body offers news, events calendar, guides and information about standards.

Bureau of Labor Statistics (<http://www.bls.gov>): Statistics and occupational Outlook.

Occupational Safety & Health Administration (OSHA) (<http://www.osha.gov>): News and information for workers and employers on OSHA regulations and compliance.

Institute of Electrical and Electronics Engineers (IEEE) (<http://www.ieee.org/>): Professional association which serves as a leading authority in computer engineering, telecommunications, electric power, aerospace and consumer electronics, biomedical technology, and related areas.

Institute for Operations Research and the Management Sciences (INFORMS) (<http://www.informs.org/>): Serves the scientific and professional needs of operations research and the management.

Society of Manufacturing Engineering (SME) (<http://www.sme.org/>): Professional society promoting an increased awareness of manufacturing engineering and helps keep manufacturing professionals up to date on leading trends and technologies.

Institute: Science, Engineering & Technology (<http://www.intute.ac.uk/sciences/>): Provides access to quality networked engineering, mathematics and computing resources.

Science & Technology Review (<http://www.llnl.gov/str/>): Articles cover a wide array of technology related topics.

FirstGOV for Science (<http://www.science.gov/>): A gateway to authoritative selected science information provided by U.S. Government agencies, including research and development results.

The Association of Technology, Management, and Applied Engineering: (<http://atmae.org/>): Professional association responsible for the promotion of industrial technology in business, industry, education and government.

ACRONYM FINDER (<http://www3.interscience.wiley.com/stasa/search.html>).

Science Videos Search Engine (<http://sciencehack.com/videos/index>).

ThermoDex (<http://www.lib.utexas.edu/thermodex/>): An index of thermodynamic and physical property resources.

Academic Info (<http://www.academicinfo.net>): Educational Subject Directory - Online Degree Programs - Test Preparation Resources

Industrylink (<http://www.industrylink.com>): The premier directory of links to industry web sites.

Martindale's Calculators On-Line Center (<http://www.martindalecenter.com/Calculators.html>): Online calculators in engineering, math, statistics, chemistry, and other sciences.

eFunda (<http://www.efunda.com/home.cfm>): A "storehouse" of fundamental engineering formulas and other reference information.