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Resources for Students with Disabilities Considering Careers in Science, Engineering and Mathematics.

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Reference Materials - Bibliographies (131)

Accessibility (for Disabled); Assistive Devices (for Disabled); *Career Education; College Choice; *Disabilities; *Engineering; Higher Education; Information Sources; Legal Responsibility; *Mathematics; *Sciences; Secondary Education; Student Adjustment; Technology

This paper lists 100 print and non-print resources for students with disabilities who are considering careers in science, engineering, and mathematics. Print resources include books, newsletters, directories, journals, guides, fact sheets, technical reports, teaching guides, and student workbooks. Non-print resources listed are primarily videotape recordings. The resources are dated from 1984 through 1996. Addresses are provided for some of the items listed. Items are listed under the following subject headings: careers, choosing a college, adapting to college, adaptive technology, laboratory access, journals, research, legal issues, psychological and social adjustment, resources for teachers and other professionals, resources from other organizations, and High School/High Tech. (DB)

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RESOURCES FOR STUDENTS WITH DISABILITIES CONSIDERING CAREERS IN SCIENCE, ENGINEERING AND MATHEMATICS

Prepared by Bruce Strom and Joe Herl
Project Pursuit
November 13, 1996

PURSUIT is a three-year National Science Foundation supported project at the University of Illinois at Urbana-Champaign. To request further information or materials in an alternative format, contact:

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BEST COPY AVAILABLE
Resources for Students with Disabilities
considering careers in
science, engineering and mathematics

compiled by Project Pursuit, University of Illinois

The following list is not comprehensive, but rather represents what Pursuit staff members have seen and found to be helpful. Many of the sources can be obtained through your local library, either by direct loan or through interlibrary borrowing. Addresses are given for some of the more obscure items. For more information, contact Project Pursuit at (800) 367-1736.

Subject headings:

Careers
College and university
  Choosing a college
  Adapting to college
  Adaptive technology
  Laboratory access
  Journals
  Research
Legal issues
Psychological and social adjustment
Resources for teachers and other professionals
Resources from other organizations
  AAAS Barrier Free in Brief
  DO-IT, University of Washington
  High School/High Tech

Careers


Tech link newsletter: linking students with disabilities with careers in technology. (1993- ). Pittsburgh: Tech-Link Program of Pittsburgh (808 Ridge Avenue, Pittsburgh, Penn. 15212; phone (412) 237-2767). Semiannual publication. "The TECH-LINK program provides students with disabilities enriched educational opportunities. The organization will promote the linkage between industry, students, and their parents, leading to career development in mathematics, sciences and technology." Activities include mentor programs, industry tours, professional shadowing, work opportunities, awareness/attitude programs and sharing of scholarship, career and vocational information.


College and University

Choosing a college


Adapting to college


Association on Higher Education and Disability. (1987). Unlocking the doors: making the transition to postsecondary education. Columbus, Ohio: Association on Higher Education and Disability. 18 p. "This booklet is meant to be used by high school students with learning disabilities, their parents and teachers in preparing for the transition
from secondary to postsecondary education."


Reiling, C. ([ca. 1990]). How significant is "significant"? A personal glimpse of life with a learning disability. Columbus, Ohio: Association on Higher Education and Disability. 21 p. A moving first-person account of a college freshman's battle with the effects of dyslexia. Includes a 10-day diary. Give this little book to your doubting professors.


Adaptive technology


Farber, A., Fonda, G. E., Rosenthal, B., & Weinstock, F. (1990). A patient's guide to visual aids and illumination. New York: National Association for Visually Handicapped. 12 p. This booklet provides individuals who have partial vision with some practical principles,
ideas, and an awareness of available devices that can be helpful in making the often difficult task of reading easier.


Laboratory access

Best, M. (1992). Science laboratory access manual: a guide to designing a lab for access for people with disabilities. Melbourne: Victorian University of Technology. 23 p. Published on behalf of the Faculty of Science, Victorian University of Technology, St. Albans Campus. Disabilities of ambulation, manipulation, the senses; wheelchair users; access issues; access to laboratories; barrier issues.


Journals

Journal of postsecondary education and disability. (1983- ). Published by the Association on Higher Education and Disability (AHEAD), Columbus, Ohio.

Research


Legal Issues


Kincaid, J. M. ([n.d.]). Legal considerations for serving students with learning disabilities. Columbus, Ohio: Association on Higher Education


Section 504, the law and its impact on postsecondary education. ([n.d.]). Washington, D.C.: American Council on Education (ACE). List of persons with disabilities protected under Section 504, impact of law on postsecondary education, restrictions for universities and colleges, program modifications.

This is your right. (1995). Columbus, Ohio: Irene M. Ward & Associates (4949 Hayden Run Road, Columbus, Ohio 43221-5930; phone (614) 889-0888). 2 videotapes (32:00, 34:44 min.), with accompanying notes. Each videotape contains two versions: (1) closed-captioned; (2) open-captioned, audio descriptor.


Psychological and Social Adjustment

Keeney, V. T. et al. (1995). It's all right to be angry. New York: National Association for Visually Handicapped. 8 p. "This publication addresses the problem of complex emotions experienced by those who must learn to face life without the benefit of full vision. It is hoped that their families and friends will also benefit by learning to make
allowances and adjustments during the painful process toward acceptance."


Resources for Teachers and Other Professionals


Cuebert, S. (Comp.). ([n.d.]). Student support services faculty/staff handbook: adults with disabilities/special needs in the college classroom. Patrick Henry Community College. 28 p.

The head injury survivor on campus: issues and resources. ([ca. 1988]). Washington, D.C.: Heath Resource Center. 11 p. Intended for campus administrators, persons who provide services to students with disabilities, faculty members, head injury survivors and their families.


Teaching students with disabilities. (1996). Champaign, Ill.: Project PURSUIT. Loose-leaf binder. A collection of publications that relate to teaching students with disabilities. Topics include classroom accommodations, laboratory accommodations, hearing impairments, visual impairments, statistical profiles, and general topics.

The ten commandments of communicating with people with disabilities. (1994). Columbus, Ohio: Irene M. Ward & Associates (4949 Hayden Run Road, Columbus, Ohio 43221-5930; phone (614) 889-0888). Videotape (25 minutes), with accompanying notes. 2 versions on one tape: (1) stereo audio, closed-captioned; (2) mono audio, audio descriptor, open captioned.


American Association for the Advancement of Science. (1991). Barrier free in brief: workshops and conferences for scientists and engineers. Washington, D.C.: American Association for the Advancement of Science. 35 p. Topics: Historical note -- What is a barrier-free meeting? -- Why organize barrier-free meetings? -- Early planning -- Choosing a site -- Communicating -- Arranging services for participants who have mobility impairments -- Arranging services for participants who are deaf or hard-of-hearing -- Arranging services for participants who are blind or visually impaired -- Running the meeting -- Tips for presenters and session chairpersons -- Tips for smaller meetings -- Post-meeting evaluation -- Sample meeting evaluation form -- Barrier-free meeting checklist -- Building access checklist -- Resources.

DO-IT, University of Washington

DO-IT. (1994). DO-IT scholars. Seattle: DO-IT Project, University of Washington. Videotape (11 minutes). Describes the DO-IT program, which introduces students with disabilities to science, engineering and mathematics through mentoring, summer study and internetworking.


High School/High Tech

High School/High Tech: establishing a program to promote science, engineering, and technology careers for students with disabilities. (1994). Washington, D.C.: President's Committee on Employment of People with Disabilities (1331 F Street, NW, Washington, DC 20004; phone (202) 376-6200). 40 p. "This manual is designed to provide educators, corporations, and community-based organizations with the tools necessary to plan and implement a High School/High Tech program. High School/High Tech is an enrichment program for students with disabilities that allows them to explore careers in science, engineering, and technology."


technology for students with disabilities. Program components include
site visits, mentoring, shadowing, guest speakers, school activities,
summer seminars, employment opportunities.

President's Committee on Employment of People with Disabilities. 16 p.
A brochure introducing the High School/High Tech program, "a community-
based partnership of parents, educators, rehabilitation professionals,
and business representatives. Its purpose is to encourage students with
disabilities to explore the fields of science, engineering, and
technology."

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This document is accessible at:
http://pursuit.rehab.uiuc.edu/pursuit/dis-resources/biblio.html

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