

School of Industrial and Labor Relations
Program on Employment and Disability

HR Processes and IT Accessibility for Persons with Disabilities

Improving Employer Practices under Title I of the Americans with Disabilities Act

NIDRR Research and Demonstration Project H133A7000. Conducted by Cornell University Program on Employment and Disability Susanne M. Bruyère, Principal Investigator William Erickson, Research Specialist Sara VanLooy, Research Administrative Assistant

Background of the Research

The purpose of this research is to investigate the impact of the Americans with Disabilities Act (ADA) employment provisions on the employment practices of private sector business. The intended outcome of the research is to assist in the identification of employment practices that have been the most challenging in implementing the ADA, and to identify interventions that can be used by private sector employers and persons with disabilities to address these employment practices. Employment policy and practices that enhance both the hiring and retention of workers with disabilities are being examined. Most recently, our focus has been in information technology accessibility in the recruitment and employment processes.

Current Research on IT Accessibility in E-Recruiting and the HR Process

Online technology has made significant inroads into human resource (HR) processes over the past several years, including recruitment, benefits information dissemination, and training. The accessibility of the information technology (IT) used in these processes is much less well documented. The purpose of this study is to address this information need. The recruiting process particularly is the gateway to employment. E-recruiting is having an enormous impact on businesses, even as accessibility of Web sites is a continuing concern. To explore these interrelated issues, Cornell University is conducting research on e-recruiting and IT applications in HR and employment processes as a part of our research on disability non-discrimination in employer practice. The first phase of the study was an extensive review of the literature, followed by an examination of e-recruiting accessibility for people with disabilities of ten job boards (an Internet site where employers pay to post their positions and to search the resume database for candidates), and 31 corporate e-recruiting Websites. In the second phase of the research, human resource (HR) representatives were interviewed regarding their organizations' use of Web technology in HR processes and computer accessibility issues in the workplace. Further information about each of these studies is available below; full copies of the study report is available from Cornell University.

Results of E-recruiting Web Site Review

The e-recruiting Web site review analyzed online recruiting sites both with automated accessibility testing software (Bobby v3.2) and with an examination of a sub-sample of the sites through a "simulated" application process. The purpose of this second method was to see if it would be possible to successfully proceed through the entire multi-step job search and application process. None of the job board pages (home, job search, sign-up, or resume submittal pages) evaluated by Bobby were found to be accessible. The vast majority of corporate e-recruiting sites also failed Bobby's tests (the results of this phase of the web site review are presented in the two figures at the right).

The simulated application process evaluation was slightly more promising, but still only three of the nine job boards and three of the twelve corporate sites evaluated were accessible enough to work through the entire process of registration, job searching, resume submittal, and application for a position. Many of the issues encountered could easily be corrected through the consistent use of alternative text for essential submit image buttons (i.e. "apply," "post resume").

Job Boards, Bobby Priority One Test Results						
	Home Pages	Sign up page	Job Search	Resumé Builder		
Number of sites Bobby evaluated	n=10	n=10	n=10	n=2		
% Accessible (no priority one errors detected)	0%	0%	0%	0/2		
Accessibility errors noted						
Provide alternative text for all image-type buttons in forms	40%	60%	30%	1/2		
Provide alternative text for all images	100%	90%	80%	2/2		
Give each frame a title	20%	30%	20%	2/2		
Provide alternative text for all image map hot-spots	20%	20%	20%	1/2		
Each frame must reference an HTML file	10%	20%	10%	1/2		

Corporate Web Recruiting Sites, Bobby Priority One Test Results							
	Home Pages	Sign up page	Job Search	Resumé Builder			
Number of sites Bobby evaluated	n=31	n=29	n=29	n=11			
% Accessible (no priority one errors detected)	26%	10%	17%	9%			
Accessibility errors noted							
Provide alternative text for all image-type buttons in forms	19%	10%	28%	9%			
Provide alternative text for all images	52%	79%	59%	64%			
Give each frame a title	10%	10%	28%	36%			
Provide alternative text for all image map hot-spots	13%	14%	7%	none			
Each frame must reference an HTML file	3%	none	7%	9%			

Given the growth of online recruiting, combined with the frequent access problems discovered in this study, there is a very real potential for certain populations of individuals with disabilities to be all but cut off from this most promising avenue for job searches and applications. None of the accessibility issues encountered were insurmountable, and most could be easily altered to significantly improve accessibility. It is vital to ensure that career recruiting sites on the World Wide Web are made accessible so all individuals, regardless of their situation, have access to this wealth of jobs available on the Internet.

Human Resource Considerations in Accessible IT Study

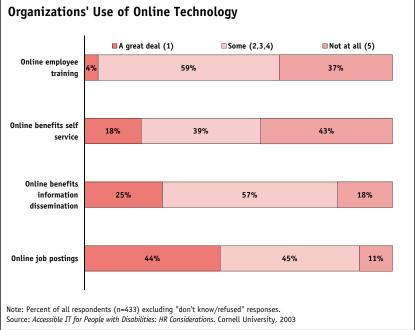
In the study of HR processes and accessible IT, a survey of over 400 HR representatives (drawn from a sample of members of the Society for Human Resource Management (SHRM)) addressed the following: organiza-

tions' use of Web accessibility technology in HR processes; knowledge and perceptions of barriers to the use of computer/Web technology to employees with disabilities; and familiarity with assistive technology and resources. Online/Web HR processes were used heavily by the participating organizations (see figure to the right). Nine of the ten organizations reported using Web processes for job postings, eight of ten for online benefits information dissemination, and about six out of ten for online benefits self service and online employee training.

Knowledge of various assistive technologies for computer users with disabilities was low (see figure below). Slightly fewer than half the respondents were familiar with screen magnifiers, 32 percent with speech recognition software, a quarter or fewer were familiar with video captioning and Braille readers. Nearly three-quarters

of those interviewed were unfamiliar with guidelines for accessible Web design—only 13 percent were familiar—a significant issue considering the heavy usage of HR-based Web processes in these organizations.

Employee use of computers was extensive as well, with the majority of employees in the organizations using computers and a very large proportion working on computers more than half the workday. Despite the low level of knowledge regarding assistive technologies, nearly half the respondents reported having made some

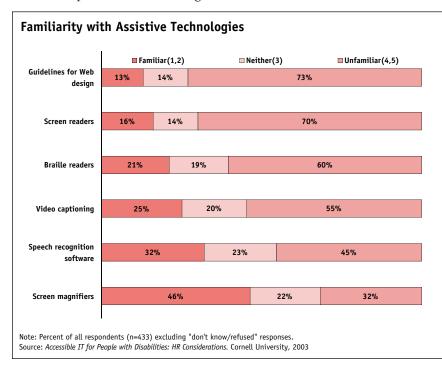


type of adaptation to make a computer accessible to an employee with a disability. Most of the adaptations were directed towards making the workstation itself accessible for wheelchair users, but also included the

purchase of special input devices (ergonomic keyboards, voice recognition software, an ergonomic mouse) and adaptations for employees with visual impairments (i.e. screen magnifiers, large monitors).

Next Steps

In response to the information needs identified in this study, Cornell University is currently preparing informational materials for human resource professionals on IT accessibility in the HR and employment processes, which will be distributed in collaboration with SHRM by Web and also through HR practice and scholarly publications in related professional journals.



For Further Information on the ADA and on IT Accessibility

ADA Technical Assistance Program

The National Institute on Disability and Rehabilitation Research (NIDRR) has established ten regional centers to provide information, training, and technical assistance to employers, people with disabilities, and other entities with responsibilities under the Americans with Disabilities Act (ADA). The Centers also provide information on accessible information technology issues. Call 1-800-949-4232 or go to www.adata.org.

The Job Accommodation Network (JAN)

The Job Accommodation Network (JAN) is a free consulting service that provides information about job accommodations, the Americans with Disabilities Act (ADA), and the employability of people with disabilities. Visit janweb.icdi.wvu/, or call 1-800-526-7234 for more information.

The Center for IT Accommodation (CITA) Section 508 Resources

The Center for Information Technology Accommodation (CITA), in the U.S. General Services Administration's Office of Governmentwide Policy, has a Web site where Federal employees and the public can access resources for understanding and implementing the requirements of Section 508. Go to www.section508.gov for more information.

The World Wide Web Consortium (W3C)

The W3C develops inter-operable technologies (specifications, guidelines, software, and tools) to lead the Web to its full potential. See http://www.w3.org/ for further information.

hrtips.org

Web-based tools to help HR professionals build inclusive workplaces.

Contact Information

For further information about this and other related reports contact:

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