

2006 Information Technology for Regional Businesses: A Composite View

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Applied Information Management Institute**



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The opening paragraphs of a 1997 Applied Information Management (AIM) Institute study entitled *The Information Technology Environment for Greater Omaha Businesses* stated:

“Today, educational institutions – at all levels – buy hardware and software, build teaching labs, develop curriculums, and create a learning environment that includes computer use by their students.”

“Meanwhile, when businesses employ people, either to develop new applications or use computer systems in their work, they like employees that are experienced with their technical environment. These environments are as varied as are the companies. Collectively, however, these business users of computers create or define a community’s technical platform. To the extent that educators understand the attributes of the community platform, they can then create the learning environment their students are most likely to face in the business world.”

That statement is as true today as it was nine years ago. The only change has been the explosive development of a new era of computing and communication technologies. The 1997 study spoke of an operating environment of mainframe, mid-range, server and client. The World Wide Web was only referenced twice in the report, including this statement. “The Internet will grow rapidly; bringing new application challenges/opportunities.”

It goes without saying that the Internet grew rapidly, redefining every phase of information technology from the operating platforms, development software, development technologies and strategies, business strategies, consumer expectations and social interaction.

Given the changes, it seemed appropriate to once again survey IT professionals to document their current environment and plans for the next three years.

The following findings are based on responses from 69 firms reporting over 33,400 Nebraska employees of which 4,058 were reported as information technology professionals. Please note that in the following tables, many IT professionals are competent in a variety of technologies resulting in double counting, e.g., an employee may be reported as a COBOL, Basic and a C++ programmer, thus their skills are reported in three areas of expertise. Five major dimensions of the employer's technology platforms were reported:

Development Languages

Development Environment

Database Environment

Operating Environment

Communications Environment

The questionnaire used is shown in Appendix I. The names of the participating firms are shown in Appendix II. Academic institutions reported their administrative operations, not their academic/teaching environment.

I. Development Languages

The questionnaire asked respondents to indicate which development languages they were using, the current number of employees that were now using those languages and the projected change in each language's use over the next three years. In addition, respondents were asked to list any other development languages they used.

Table 1 shows 20 different languages listed on the questionnaire with the summary of current use and the future trends. When asked by the question, "other," nine of the respondents

listed 17 other development languages they were using (footnote 1 on Table I). Some of the respondents are contract development firms developing applications for the unique environment of their clients.

TABLE I

	Now Using	Current Employment	Change in the Next 3 Years ¹			
			No Change	Number Increase	Number Decrease	Net Change
DEVELOPMENT LANGUAGES						
Assembler - Mainframe	7	59	9	1	5	-4
Assembler - Other	3	38	8	0	5	-5
BASIC	7	31	9	0	4	-4
COBOL	18	509	16	2	7	-5
JCL	10	432	11	2	3	-1
RPG	11	60	10	0	7	-7
Sub Total	56	1129				
C/C++	19	156	13	11	1	10
C#	11	75	7	10	1	9
HTML	31	389	16	20	2	18
Java	20	265	10	19	2	17
Javascript	23	215	12	16	2	14
Perl	16	62	14	4	2	2
PHP	12	33	12	6	1	5
Python	5	37	8	2	0	2
Shell Scripting	13	84	9	8	2	6
SQL	35	845	12	32	0	32
Ruby	3	15	8	2	0	2
Visual Basic	29	301	19	13	4	9
XML	24	357	6	29	0	29
Other ²	9	48	5	7	0	7
Sub Total	250	2882				
SUM	306	4011				
¹ The sum of No Change, Number Increase and the Number Decrease do not always equal the number Now Using because some respondents recorded No Change in their use of a Technology when they were not now using that technology. ² Other: Delphi, PeopleSoft, Objective C., .NET, FileNet BPM, ColdFusion, Access, ABAP/4, JPS, Pascal, Fortran, Ada, XSLT or XSLT, CSS, Tal, SCOBAL, Flash Action Script						

The top panel of Table I shows six languages that would commonly be associated with legacy applications, frequently run in mainframe environments. This data shows that 18

respondents use COBOL. They also report that 509 of the employees develop in COBOL. Only two firms indicated an increase in the use of COBOL in the next three years, while seven expect to decrease their use of COBOL. Table I shows that JCL is the next most heavily used development language in the top panel of legacy languages with 43 current employees.

Overall, the net change is negative for every language in the top panel of legacy languages with 1129 current employees – less than 30% of all programmers are currently supporting or developing applications in these Legacy languages. This level of development in legacy languages is dramatically lower than the 1997 data showing over 75% of all developers using these six languages.

The story revealed in the bottom panel of Table I is markedly different. Most of these languages are associated with the Client Server/Web world and the respondents report a positive net gain in all of the languages in the next three years. Looking at individual languages, SQL is now used by 35 firms. These 35 employers had 845 individuals competent in this language in their development staff and none of the respondents planned to decrease SQL use in the next three years. The other most popular Client Server/Web World languages in the bottom panel are HTML, XML, Visual Basic and Java. Each of these languages were used by 20 or more firms and had over 250 employees currently employed in their use.

In summary, the Client Server/Web world development languages now account for over 70% of current employment compared to less than 30% in the Legacy languages. This is a complete reversal of the 75% of all developers using the six Legacy languages in 1997, and a dramatic change in a short period of time.

II. Development Environment

Table II documents the different development environments used by the respondents. The data shows three environments that are most frequently used as measured both by the number of firms using them and the number of current employees. Those environments are:

Development Environment	Firms	Current Employment	Change in Firms Planning Increase Use
.Net	21	237	+21
Crystal Reports	24	213	+ 9
Microsoft Exchange	24	125	+14

These three development environments also are projected to be employed by more firms in the next three years as indicated in the positive net change in future use.

TABLE II

	Change in the Next 3 Years ¹					
	Now Using	Current Employment	No Change	Number Increase	Number Decrease	Net Change
DEVELOPMENT ENVIRONMENT						
.NET	21	237	8	21	0	21
Crystal Reports	24	213	17	13	4	9
Embedded Systems	8	35	10	7	0	7
Lotus Notes	13	82	14	1	4	-3
Microsoft Exchange	24	125	19	14	0	14
Novell Groupwise	6	19	8	4	2	2
Oracle Application Server	15	64	10	12	3	9
PeopleSoft	7	84	8	6	2	4
SAP	4	28	9	2	0	2
Other ²	9	53	4	7	1	6
SUM	131	940				

¹The sum of No Change, Number Increase and the Number Decrease do not always equal the number Now Using because some respondents recorded No Change in their use of a Technology when they were not now using that technology.

²Other: SQL Reporting Services and Sharepoint, Powerbuilder, Microsoft ERP, Macromedia Flash/Dreamweaver, Lawson, Eclipse, Datatel, ADP

The development environment was not documented in the 1997 study. The use of development environment systems that provide the family of tools to support application development and customization represent a major step in the evolution of the application development and application management. This development environment was in its infancy 10 years ago. However, the data in Table II suggests that respondents expect continued strong growth in these tools as evidenced that the usage of only one – Lotus Notes – is expected to decline in the next three years.

III. Database Environment

Table III documents the use of different database systems used by the respondents. SQL Server is clearly the most utilized system reported by the respondents as measured by both the number now using that software and employment. The second tier of systems, based on those two measures, include MS Access, MySQL and Oracle.

Database Environment	Firms	Current Employment	Change in Firms Planning Increased Use
SQL Server	40	289	+29
MS Access	24	157	0
MySQL	19	139	+14
Oracle	23	122	+14

Only users of Sybase projected a negative change in their use of this database software. When compared to the 1997 results, an interesting observation can be made. In the 1997 study the number of current employees was equal to 44% of the number of programmers using the development languages. In this study, database employment of 855 is only 22% of the employment in development languages. These findings seem to suggest a couple of

observations. First, the efficiency of database software has evolved to such a point that fewer database professionals are required to meet the business requirements.

TABLE III

	Now Using	Current Employment	Change in the Next 3 Years ¹			
			No Change	Number Increase	Number Decrease	Net Change
DATABASE ENVIRONMENT						
DB2	16	96	10	10	5	5
MS Access	24	157	12	10	10	0
MySQL	19	139	14	15	1	14
Oracle	23	122	12	16	2	14
PostgreSQL	6	40	7	4	0	4
SQL Server	40	289	19	29	0	29
Sybase	9	25	9	1	5	-4
Other ²	5	38	5	1	0	1
SUM	142	906				
¹ The sum of No Change, Number Increase and the Number Decrease do not always equal the number Now Using because some respondents recorded No Change in their use of a Technology when they were not now using that technology. ² Other: Unidata, Pervasive, Cache, ACT, NonStop, SQL, MP/MX, Informix, HSQL						

Secondly, most applications are more comprehensive today than earlier releases allowing the application software to meet business reporting information requirements that previously required database software.

IV. Operating Environment

Table IV documents different operating environments. When comparing this survey with the 1997 survey, there were fewer large firms that responded; hence, fewer firms with mainframe and mid-range types of equipment. However, of those that did respond, most indicated either no change or a decrease in the role of those operating systems (see the top panel of Table IV). MVS and CICS had the largest current employment at 382 and 256, respectively, with three

respondents planning to increase employment and three planning decreased employment for CICS. For MVS only two respondents planned to increase employment over the next three years while three planned reductions.

TABLE IV

	Now Using	Current Employment	Change in the Next 3 Years ¹			
			No Change	Number Increase	Number Decrease	Net Change
OPERATING ENVIRONMENT						
AS/400	13	101	11	3	6	-3
CICS	11	263	13	3	3	0
HP (PA-RISC)	5	28	6	4	1	3
MVS	7	391	6	2	4	-2
Sub Total	36	783				
AIX	13	171	12	6	2	4
HP/UX	7	70	8	4	3	1
Linux	17	160	12	16	0	16
Mac OS/OS X	11	58	14	3	2	1
Novell	9	52	10	3	3	0
Sun/Solaris	11	80	10	4	4	0
Unix - Other	13	45	13	5	2	3
Windows 3.x/95/98/ME	16	234	10	2	11	-9
Windows NT	19	269	13	5	7	-4
Windows XP	44	1032	26	26	1	25
Windows 2000/2003 Server	42	449	25	27	0	27
OS/2	6	29	8	1	2	-1
DOS	12	142	10	0	8	-8
Other ²	4	55	5	2	0	2
Sub Total	224	2846				
SUM	260	3629				
¹ The sum of No Change, Number Increase and the Number Decrease do not always equal the number Now Using because some respondents recorded No Change in their use of a Technology when they were not now using that technology. ² Other: Tandem, NonStop OSS, Honeywell 6080OS, Guardian OS						

A total current employment of 3,629 was reported by respondents in the operating environment. The mainframe type environments accounted for 22% or 783 employees. The Client Server/Web operating systems accounted for the employment of 2,846 or 78% of the operating environment based on the current employment of 3,629.

Windows XP was used by more firms and accounted for over twice the employment of any other operating system associated with the Client Server/Web part of the operating environment. In fact, the four different generations of Windows operating systems were the system used by more firms with greater employment than all other operating systems in the Client Server/Web World combined (see bottom panel of Table IV).

Operating Environment	Firms Now Using	Current Employment	Change in Firms Planning Increased Use
Windows XP	44	1032	+25%
Windows 2000/2003 Server	42	449	+27%
Windows NT	19	269	- 4%
Windows 3.X/95/98/ME	16	234	- 9%

Firms reported plans to decrease employment in the two older generations of Windows over the next three years. They also plan reduced use of OS/2 and DOS.

The open source operating system Linux is showing wider acceptance with 17 respondents now using it and total employment of 160. Continued rapid use of Linux is expected, with 16 firms planning an increased use of Linux and no firms planning a decrease in use over the next three years.

V. Communications Environment

Communications has been a key part of the information technology domain for years, dating back to the invention of computers 70 years ago. However, not until recent years have the computing and communication technologies become as completely integrated as they are today. A firm or enterprise cannot operate without a comprehensive communications environment.

Table V documents the respondents' communications environment. Not only did the respondents report total communications employment at 1085, every technology shows a planned increase in employment over the next three years except token ring. Wireless technologies are on a rapid growth path with respondents expecting greater future employment in both Wireless Ethernet and Other Wireless technologies. Use of VOIP technology is now used by 29 respondents with a large number projecting increased use over the next three years.

TABLE V

	Now Using	Current Employment	Change in the Next 3 Years ¹			
			No Change	Number Increase	Number Decrease	Net Change
COMMUNICATION ENVIRONMENT						
Ethernet	38	223	29	14	1	13
IXP	9	56	10	5	3	2
Token Ring	8	33	8	1	5	-4
TCP/IP	36	295	27	19	1	18
WAN	23	136	18	15	0	15
Wireless Ethernet	32	134	16	25	1	24
Wireless – Other	17	89	10	16	0	16
VOIP (Voice over IP)	29	96	15	24	1	23
Other ²	3	23	3	1	0	1
SUM	195	1085				
¹ The sum of No Change, Number Increase and the Number Decrease do not always equal the number Now Using because some respondents recorded No Change in their use of a Technology when they were not now using that technology. ² Other: AppleTalk, Cisco IOS, X.25, Custom Protocols, SNA, Async, Bisync, SS7						

VI. Summary

The following table summarizes total current employment by environment for both 2006 and 1997.

Technology Platform	--- 1997 ---		--- 2006 ---	
	Total Current Employment	Percent of Total Current Employment	Total Current Employment	Percent of Total Current Employment
Development Languages	7,425	38.20%	4,011	37.94%
Development Environment	N/A	N/A	940	8.89%
Database Environment	3,277	16.87%	906	8.57%
Operating Environment	8,728	44.92%	3,629	34.33%
Communications Environment	N/A	N/A	1085	10.26%

Clearly, in 1997 as well as the 2006 survey, employers “double counted” employees that have competencies in more than one of the above environments. Also, the structure of the questionnaire was somewhat different so exact comparisons of the levels of employment between the different types of work in the respondents IT environment is difficult. However, the above table shows some consistency between the two studies. Development languages have nearly identical percentages of employees committed to that type of work. The 2006 respondents show only 8.57% of their employees in database compared to twice that percentage (16.87%) in 1997. However, with the emergence of development environment software and tools by 2006, it is likely the skill set that made a good database professional in 1997 also made a good development environment professional in 2006.

The communications environment was not documented in the 1997 study. Other AIM research has shown that communications’ professionals account for about 10% of all IT

professional employment and is a fast growing part of the overall operating environment of most employers. This 2006 data reinforces these findings from other studies.

One additional observation: other AIM research has documented that approximately 10% of a firm's staff is involved in maintaining the technology platform on which the firm operates. This study supports that general observation with IT professions (4,058) compared to total employment (33,424) of the responding firms. These are the IT professionals that deploy and maintain systems, maintain the communications environment; manage data and utilize data mining/reporting technologies; operate and maintain the mainframe, client server, communications and Web environments.

In conclusion, the above findings which document the IT platform for the community should be instructive for secondary and postsecondary institutions as they develop and modify their curriculums. Whether a student is studying for a career as an IT professional or a user of information technologies, preparation in the tools they will most likely face in the work place will give them an added advantage.

Appendix I



Applied Information Management Institute Information Technology Platforms Questionnaire

Today, educational institutions at all levels develop curriculums and create a learning environment that includes various information technologies.

Meanwhile, businesses have increasingly complex and comprehensive technology platforms in their work environment. While each business has a different technology platform; collectively, these individual corporate environments define a community's technology platform.

In 1997, a survey of nearly 100 businesses provided an in depth look at the information technology environment an employee could expect to find at Omaha employers. These findings were valuable for area educators as they created the learning environments their students were most likely to face on the job.

A lot has happened since 1997, including broad commercial use of web technologies; increased computing power that blurred historic sizing and classification of hardware environments; expanding communication technologies and options; and new development software and technologies at all levels. This attached survey is designed to document the region's technology environment to help educators plan programs and curriculum for today's workplace. It may also be instructive to current employers and managers by providing them a local glimpse of area business plans.

Please take a few minutes to complete this questionnaire, noting only the hardware and products now in use in your business environment.

Every completed survey will be entered into a drawing to win an **Ipod Shuffle**. Be sure to include your email address so we can contact you if you are one of the winners; and, so we may send you a copy of the final study results.

Thank you for your participation.

Your First Name:

Your Last Name:

Your Email Address:

Company Name (Required):

Estimated Total Number of Employees in Nebraska (Required):

Estimated Total Number of IT Employees in Nebraska (Required):

Address:

City:

State:

Zip Code:

Company Website Address:

Primary Industry:

Development Languages

Development Language	Number of IT Staff currently with this skill?	Over the next 3 years, do you anticipate an increase or a decrease in the need for this skill?
<input type="checkbox"/> Assembler - Mainframe	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Assembler - Other	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> BASIC	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> COBOL	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A

<input type="checkbox"/> C/C++	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> C#	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> HTML	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Java	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Javascript	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> JCL	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Perl	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> PHP	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Python	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Shell Scripting	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> SQL	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> RPG	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Ruby	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Visual Basic	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> XML	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Other <input type="text"/>	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A

Development Environment

Development Environment	Number of IT Staff currently with this skill?	Over the next 3 years, do you anticipate an increase or a decrease in the need for this skill?
<input type="checkbox"/> .NET	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Crystal Reports	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Embedded Systems	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Lotus Notes	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Microsoft Exchange	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Novell Groupwise	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Oracle Application Server	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> PeopleSoft	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> SAP	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Other <input type="text"/>	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A

Database Environment

Database Environment	Number of IT Staff currently with this skill?	Over the next 3 years, do you anticipate an increase or a decrease in the need for this skill?
<input type="checkbox"/> DB2	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> MS Access	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> MySQL	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Oracle	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> PostgreSQL	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A

<input type="checkbox"/> SQL Server	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Sybase	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Other <input type="text"/>	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A

Operating Environment

Operating Environment	Number of IT Staff currently with this skill?	Over the next 3 years, do you anticipate an increase or a decrease in the need for this skill?
<input type="checkbox"/> AIX	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> AS/400	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> CICS	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> DOS	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> HP (PA-RISC)	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> HP/UX	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Linux	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Mac OS / OS X	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> MVS	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Novell	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> OS/2	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Sun/Solaris	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Unix - Other	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Windows 3.x/95/98/ME	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Windows NT	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Windows XP	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Windows 2000/2003 Server	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Other <input type="text"/>	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A

Communication Environment

Communication Environment	Number of IT Staff currently with this skill?	Over the next 3 years, do you anticipate an increase or a decrease in the need for this skill?
<input type="checkbox"/> Ethernet	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> IPX	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Token Ring	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> TCP/IP	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> WAN	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Wireless Ethernet	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Wireless - Other	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> VOIP (Voice over IP)	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A
<input type="checkbox"/> Other <input type="text"/>	<input type="text"/>	<input type="radio"/> Increase <input type="radio"/> Decrease <input type="radio"/> No Change <input type="radio"/> N/A

Comments

Submit

AIM will not provide your contact information to third parties for marketing purposes.
AIM may occasionally contact you directly regarding services or information that may be of interest to you.

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Appendix II

Regional Business Information Technology Skills Inventory 2006 *69 employers*

Company Name

AalFs Mfg
ACI
Adesta LLC
Baldwin Hackett & Meeks, Inc.
Bass & Associates, Inc.
Blair Community Schools
Carson Wealth Management Group
Chief Industries, Inc.
City of Lincoln/Lancaster County
College of Saint Mary
Coventry Health Care of Nebraska
Data Technologies, Inc.
Dial America Marketing, Inc.
Fremont Area Medical Center
Girl Scouts
HDR, Inc.
Hillcrest Health Systems
HKS Medical Systems, Inc.
Hogan Group, Inc.
Huber Chevrolet, Inc.
HunTel Systems
Huting Isle, Inc. dba Comfort Keepers
Immanuel Health Systems, Inc.
InfoAxiom, Inc.
Insurance Agency Marketing Group
INTECK Corporation
Johnson Hardware Company
Kiewit Corporation
Koley Jessen P.C., L.L.O.
Kutak Rock LLP
Lewiston Schools
Mandolfo Associates
Medico Insurance Company
Mid America Computer Corp.
Mid-America Council, Boy Scouts of America
MSI Systems Integrators, Inc.
Mutual of Omaha
NDS Nutritional Products, Inc.

Company Name

NEBCO, Inc.
Nebraska Engineering Company
Nebraska Information Network
Nebraska Organ Recovery
Nebraska Wesleyan University
NP Dodge Company
Omaha Print
Omaha Public Power District
Omaha Public Schools
Omnium Worldwide
Optimum Data, Inc.
Papillion-LaVista Schools
Paxus, LLC.
Pella Products of Omaha & Lincoln
Physicians Mutual
Presbyterian Outreach, Inc.
Priority Technologies, Inc.
Renaissance Financial
Resource Insurance Consultants
Ronco Construction Co., Inc.
S&W Fence Company
SilverStone Group
Southeast Technical Institute
T & I Treats, Inc.
The Lutheran Home
The Schemmer Associates, Inc.
TMS Services
UNK
Visiting Nurse Association of Pottawattamie County, Iowa
WorldView Services Ltd.
YWCA Omaha