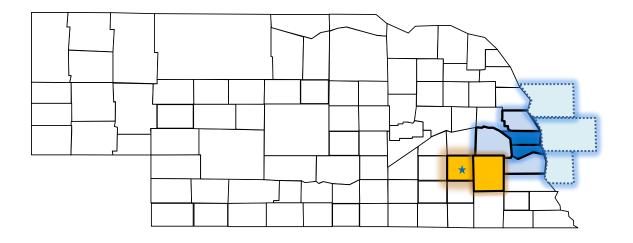
### High Technology Occupations and Industries Seward, Nebraska Laborshed's Metropolitan Counties (Lincoln & Omaha Metropolitan Counties)

October 2013



**Prepared by:** 

Kenneth M. Lemke, Ph.D. Economist Nebraska Public Power District 1414 15<sup>th</sup> Street - P.O. Box 499 Columbus, Nebraska 68602-0499 (800) 282-6773, Ext. 5535 E-Mail: <u>kmlemke@nppd.com</u> Web Site: sites.nppd.com

#### High Technology Occupations and Industries Seward, Nebraska Laborshed's Metropolitan Counties (Lincoln & Omaha Nebraska Metropolitan Counties)

#### **Executive Summary**

The information provided in this report indicates the Seward, Nebraska Laborshed's Metropolitan Counties (Cass, Douglas, Lancaster, Sarpy, Saunders, Seward, and Washington Counties in Nebraska plus Harrison, Mills, and Pottawattamie Counties in Iowa<sup>1</sup>) include a diverse mix of technology based industries employing a large number of workers with skills required by technology based companies<sup>2</sup>. The area contains several postsecondary education institutions offering a variety of technology training programs. A prospective new technology based employer is likely to find substantial numbers of workers living within the Seward, Nebraska Laborshed's Metropolitan Counties with the skills required by their business. Some of the pertinent findings of the report include:

- In 2012, an estimated 6,520 technology based establishments employed a total of approximately 97,216 workers in the Lincoln and Omaha Metropolitan Statistical Areas (MSAs). In the Lincoln MSA, 1,724 technology based establishments employed a total of 22,479 total workers. In the Omaha MSA, 4,796 technology based establishments employed 74,737 workers.
- In 2012, an estimated 37,110 technology workers were employed within the Seward, Nebraska Laborshed's Metropolitan Counties. Establishments in the Lincoln MSA employed an estimated 8,390 technology workers and establishments in the Omaha MSA employed an estimated 28,720 technology workers;
- From 2008 to 2012, the total number of workers in the Seward Nebraska Laborshed's metropolitan counties high technology labor industries was stable<sup>3</sup>.
- In 2010, 1,752 or 56.1 percent of the primary jobs held by Seward city residents and 4,608 or 61.7 percent of the primary jobs held by Seward County residents were located outside Seward County. This confirms a large number of Seward County residents are commuting to jobs in other counties.

<sup>&</sup>lt;sup>1</sup> Seward and Lancaster Counties make up the Lincoln Metropolitan Statistical Area. The Omaha Metropolitan Statistical Area consists of Cass, Douglas, Sarpy, Saunders, and Washington Counties in Nebraska and Harrison, Mills, and Pottawattamie Counties in Iowa. In 2010, 14.2 percent of Seward County workers lived in Lancaster County and 1.9 percent lived in Douglas County. Also in 2010, 34.2 percent of Seward County residents commuted to jobs in Lancaster County, 5.6 percent commuted to jobs in Douglas County, and 1.3 percent commuted to jobs in Sarpy County.

<sup>&</sup>lt;sup>2</sup> For this study, technology based companies are defined as those whose workforces include above average numbers of computer and information occupations such as software engineers and web developers; technical sales occupations; and customer service occupations.

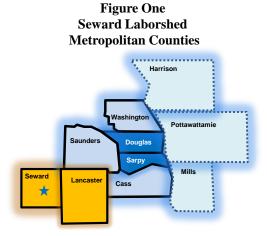
<sup>&</sup>lt;sup>3</sup> Data suppression by the U.S. Department of Labor does not allow reliable calculation of changes in the number of workers in these industries over the five-year period 2008–2012.

#### High technology labor industries Sector Structure and Employment for the Seward (Seward County) Labor Area

This report presents selected workforce-related data that provide insights into the workforce and

structure of the high technology labor industries sector in Seward County and the nearby metropolitan areas.

In reviewing the data presented in this report, it will be evident that the Seward, Nebraska Laborshed's Metropolitan Counties contain a sizeable pool of technology based industries and workers to provide for the labor requirements of additional employers in the area, both in the near term and over the long run. Data presented in this report include tables on workforce, establishments, and pay for Seward County and the nine nearby metropolitan counties<sup>4</sup>



which make up the potential laborshed's area for the city of Seward. Figure One includes a map outlining the geographic area which has been defined as the Seward, Nebraska Laborshed's Metropolitan Counties.

An important resource for new or expanding businesses is a readily available supply of skilled workers. Whether an employer requires 1 or 1,000 workers, they need to have confidence there will be a sufficient number of workers available to meet their labor requirements. This report is provided as a key analytical tool to identify and quantify the number of high technology labor industries workers in the Seward, Nebraska Laborshed's Metropolitan Counties.

<sup>&</sup>lt;sup>4</sup> The Omaha MSA has been included in this study because, in 2010, 5.6 percent (417) of the primary jobs held by Seward County residents were located in Douglas County and 1.9 percent (102) of the primary jobs in Seward County were held by residents of Douglas County.

#### Labor Force and Workforce

As shown in Table One, total employment of people living in the Lincoln and Omaha MSAs; grew from 595,235 in 2007 to 611,506 people in 2012; this was a gain of 2.7 percent. During the same period, the area's workforce (number of jobs within the area) increased by 0.3 percent from 605,014 to 606,901. This suggests the number of locally available workers grew faster than the number of job openings within the area.

| Table One<br>Labor Force and Work Force |   |         |         |         |         |         |                       |
|---|---|---------|---------|---------|---------|---------|-----------------------|
| Lincoln                                 | Labor Force and Work Force<br>Lincoln and Omaha Metropolitan Statistical Areas, 2007–2012 |         |         |         |         |         |                       |
|   | 2007  | 2008    | 2009    | 2010    | 2011    | 2012    | % Change<br>2007–2012 |
| Labor force                             | 614,990   | 625,578 | 619,805 | 621,971 | 629,934 | 638,245 | 3.8                   |
| Employment                              | 595,235   | 604,056 | 589,710 | 591,082 | 600,094 | 611,506 | 2.7                   |
| Unemployment                            | 19,755  | 21,522  | 30,095  | 30,889  | 29,840  | 26,739  | 35.4                  |
| Unemployment rate                       | 3.2   | 3.4     | 4.9     | 5       | 4.7     | 4.2     | NA                    |
| Work Force                              | 605,014   | 611,138 | 595,886 | 592,393 | 595,079 | 606,901 | 0.3                   |

Source: U.S. Department of Labor, Quarterly Census of Employment and Wages, www.bls.gov/cew/data.htm.

#### **Technology Occupations and Wages**

Table Two provides 2012 Lincoln and Omaha MSA job and wage data for the sixteen (16) technology occupations selected for this study. Workers in these occupations possess skills important to technology based firms.

In 2012, 8,390 workers in the Lincoln MSA were employed in one of the sixteen technology occupations, with 5,070 in occupations requiring computer or information skills and 3,320 in occupations requiring technical customer service or sales skills. In the same year, 28,680 workers in the Omaha MSA were employed in these same sixteen (16) occupations, with 17,040 employed in occupations requiring computer or information skills and 11,640 in occupations requiring technical customer service or sales skills.

As shown in Table Two, wages in the Omaha MSA were consistently higher for technology occupations than in the Lincoln MSA. Customer service representatives had the lowest average wages in both of the metropolitan areas.

#### Table Two Selected Technology Employment & Wages by Standard Occupational Classification (SOC) Codes, Lincoln & Omaha Metropolitan Statistical Areas, 2012

|              |  | Emple          | oyment       | Average An     | Average Annual Wage |  |  |
|--------------|--|----------------|--------------|----------------|---------------------|--|--|
| SOC<br>Codes | NAICS Category   | Lincoln<br>MSA | Omaha<br>MSA | Lincoln<br>MSA | Omaha<br>MSA        |  |  |
|              |  |                |              |                |                     |  |  |
| -            | and Information Skills   |                |              |                |                     |  |  |
| 15-1111      | Computer and Information Research<br>Scientists  | -d-            | 40           | -d-            | \$86,420            |  |  |
| 15-1121      | Computer Systems Analysts  | 520            | 2,310        | \$61,540       | \$73,740            |  |  |
| 15-1122      | Information Security Analysts  | 50             | 410          | \$71,670       | \$76,530            |  |  |
| 15-1131      | Computer Programmers   | 450            | 2,210        | \$64,000       | \$74,060            |  |  |
| 15-1132      | Software Developers, Applications  | 1,140          | 2,850        | \$68,370       | \$76,490            |  |  |
| 15-1133      | Software Developers, Systems Software  | 510            | 1,290        | \$61,360       | \$84,210            |  |  |
| 15-1134      | Web Developers   | 170            | 510          | \$49,170       | \$59,500            |  |  |
| 15-1141      | Database Administrators  | 120            | 690          | \$65,990       | \$77,640            |  |  |
| 15-1142      | Network and Computer Systems<br>Administrators   | 800            | 2,620        | \$60,230       | \$73,660            |  |  |
| 15-1143      | Computer Network Architects  | 100            | 900          | \$71,510       | \$90,180            |  |  |
| 15-1151      | Computer User Support Specialists  | 940            | 1,800        | \$43,850       | \$49,150            |  |  |
| 15-1152      | Computer Network Support Specialists   | 170            | 780          | \$57,220       | \$70,930            |  |  |
| 15-1199      | Computer Occupations, All Other  | 100            | 570          | -d-            | \$75,740            |  |  |
| 17-2061      | Computer Hardware Engineers  | -d-            | 100          | -d-            | \$84,830            |  |  |
|              | Total  | 5,070          | 17,080       | NA             | NA                  |  |  |
| Sales and C  | Customer Service   |                |              |                |                     |  |  |
| 41-4011      | Sales Representatives, Wholesale and<br>High Technology Labor Industries,<br>Technical and Scientific Products | 190            | 980          | \$82,490       | \$88,650            |  |  |
| 43-4051      | Customer Service Representatives   | 3,130          | 10,660       | \$26,820       | \$31,550            |  |  |
|              | Total  | 3,320          | 11,640       | NA             | NA                  |  |  |

-d- Values suppressed by U.S. Department of Labor.

NA Not Available

Source: U.S. Department of Labor, Occupational Employment Statistics (OES) Survey, www.bls.gov/oes.

#### **Total Private Employment by Industry**

Table Three shows employment by industry for the Lincoln MSA, the Douglas and Sarpy County portions of the Omaha MSA, and the remaining seven (7) Omaha MSA counties reported as a whole. In 2012, there were an estimated 606,901 private sector jobs in the combined Lincoln and Omaha MSA's.

As shown in Table Three, Douglas and Sarpy County, Nebraska contain between 30.3 percent (Natural Resources and Mining) and 93.5 percent (Professional and Business Services) of all the wage and salary jobs in the Omaha MSA. Excluding the natural resources and mining sector, Douglas and Sarpy County, Nebraska contain at least 83.4 percent of the jobs in the remaining Omaha MSA sectors. This is important because a large number of Seward County residents commute to Douglas or Sarpy County for their primary jobs and these two counties are major sources of workers for jobs located in Seward County.

| Table Three   |  |  |  |  |  |
|---|--|--|--|--|--|
| <b>Employment, Total and by Economic Sector, 2012</b>                       |  |  |  |  |  |
| Lincoln and Omaha Metropolitan Statistical Areas (MSA) & Selected Counties, |  |  |  |  |  |
|   |  |  |  |  |  |

|                                      | Lincoln MSA                       | Omaha MSA                      |                                       |                                  |
|--------------------------------------|-----------------------------------|--------------------------------|---------------------------------------|----------------------------------|
| Economic Sector                      | Seward &<br>Lancaster<br>Counties | Douglas &<br>Sarpy<br>Counties | Remainder of<br>Omaha MSA<br>Counties | Total Omaha<br>& Lincoln<br>MSAs |
| Goods-Producing                      | 21,234                            | 42,179                         | 11,665                                | 75,078                           |
| Natural Resources and Mining         | 704                               | 415                            | 954                                   | 2,073                            |
| Construction                         | 7,170                             | 17,518                         | 3,395                                 | 28,083                           |
| Manufacturing                        | 13,360                            | 24,245                         | 7,316                                 | 44,921                           |
| Service-Providing                    | 109,637                           | 287,244                        | 40,540                                | 437,421                          |
| Trade, Transportation, and Utilities | 31,756                            | 74,752                         | 14,151                                | 120,659                          |
| Education and Health Services        | 23,067                            | 56,420                         | 9,073                                 | 88,560                           |
| Leisure and Hospitality              | 16,314                            | 37,299                         | 8,219                                 | 61,832                           |
| Financial Activities                 | 12,054                            | 34,116                         | 2,396                                 | 48,566                           |
| Information                          | 2,120                             | 10,642                         | 797                                   | 13,559                           |
| Other Services                       | 5,919                             | 11,371                         | 1,708                                 | 18,998                           |
| Professional and Business Services   | 18,407                            | 62,645                         | 4,061                                 | 85,113                           |
| Government                           | 32,861                            | 48,990                         | 12,551                                | 94,402                           |
| Total Work Force                     | 163,732                           | 378,413                        | 64,756                                | 606,901                          |

Source: U.S. Department of Labor, Quarterly Census of Employment and Wages, www.bls.gov/cew/data.htm.

#### Technology Industries, Establishments, and Employment

The technology based industries selected for this report are shown in Table Four. Workforces in the industries in Table Four have higher that average percentages of technology workers. Also shown in Table Four are the estimated 2012 numbers of establishments and private employment for the Lincoln and Omaha MSAs.

# Table FourSelected Industries with High Percent Employment of<br/>Selected Technology Occupations byNorth American Industrial Classification System (NAICS) Codes,<br/>Lincoln & Omaha Metropolitan Statistical Areas (MSA), 2012

| NAICS |   | Establis          | hments | Employ             | ment                  |
|-------|---|-------------------|--------|--------------------|-----------------------|
| Codes | NAICS Industry  | Lincoln           | Omaha  | Lincoln            | Omaha                 |
| 221   | Utilities   | 9                 | 28     | 218 <sup>(a)</sup> | 1,146                 |
| 334   | Computer and electronic product<br>high technology labor industries | 13                | 26     | 2,192              | 776                   |
| 443   | Electronics and appliance stores                                    | 61                | 157    | 711                | 1,312                 |
| 454   | Nonstore retailers  | 51                | 118    | 905                | 2,067 <sup>(b)</sup>  |
| 511   | Publishing industries, except internet                              | 36 <sup>(a)</sup> | 89     | 836 <sup>(a)</sup> | 2,622                 |
| 517   | Telecommunications  | 28 <sup>(a)</sup> | 101    | 600 <sup>(a)</sup> | 1,163                 |
| 518   | Data processing, hosting and related services                       | 13                | 70     | 108                | 4,657 <sup>(b)</sup>  |
| 519   | Other information services  | 14 <sup>(a)</sup> | 28     | 86 <sup>(a)</sup>  | 613                   |
| 523   | Securities, commodity contracts, investments                        | 129               | 311    | -d-                | 2,934                 |
| 524   | Insurance carriers and related activities                           | 321               | 842    | 5,925              | 15,164                |
| 54    | Professional and technical services                                 | 919               | 2,717  | 8,750              | 29,519 <sup>(b)</sup> |
| 55    | Management of companies and enterprises                             | 130               | 309    | 2,148              | 12,764 <sup>(b)</sup> |
|       | Total   | 1,724             | 4,796  | 22,479             | 74,737                |

<sup>(a)</sup> Lincoln MSA values suppressed by U.S. Department of Labor; values reported are for Lancaster County, Nebraska only.

<sup>(b)</sup> Omaha MSA values suppressed by U.S. Department of Labor; values reported are for Douglas and Sarpy Counties in Nebraska only.

-d- Values suppressed by U.S. Department of Labor.

Source: U.S. Department of Labor, Quarterly Census of Employment and Wages, www.bls.gov/cew/data.htm.

U.S. Department of Labor suppression of employment data to prevent disclosure of proprietary data makes it difficult to determine if jobs in technology based industries located in the Lincoln and Omaha MSA grew between 2008 and 2012. Data in Table Five suggest a slight decline during the recession of 2007 to 2009 with a return to prerecession levels by 2012.

#### Table Five Selected Industries with High Percent Employment of Selected Technology Occupations by North American Industrial Classification System (NAICS) Codes, Lincoln & Omaha Metropolitan Statistical Areas (MSA), 2008–2012

| NAICS | Lincolli & Olliana Metropolia                 |        |        |        |        |        |
|-------|---|--------|--------|--------|--------|--------|
|       |   | 2000   | 2000   | 2010   | 2011   | 2012   |
| Code  | NAICS Industry                                | 2008   | 2009   | 2010   | 2011   | 2012   |
| 221   | Utilities                                     | 1,486  | 1,654  | 1,371  | 1,370  | 1,364  |
| 334   | Computer and electronic product manufacturing | 3,589  | 3,111  | 3,209  | 3,053  | 2,968  |
| 443   | Electronics and appliance stores              | 2,297  | 2,077  | 2,100  | 2,003  | 2,023  |
| 454   | Nonstore retailers                            | 3,762  | 3,011  | 3,160  | 2,922  | 2,972  |
| 511   | Publishing industries, except internet        | 4,204  | 3,492  | 3,335  | 3,385  | 3,458  |
| 517   | Telecommunications                            | 2,528  | 2,531  | 2,014  | 2,016  | 1,763  |
| 518   | Data processing, hosting and related services | 4,970  | 4,625  | 4,558  | 4,754  | 4,765  |
| 519   | Other information services                    | 191    | 221    | 563    | 563    | 699    |
| 523   | Securities, commodity contracts, investments  | 3,016  | 3,189  | 3,138  | 2,987  | 2,934  |
| 524   | Insurance carriers and related activities     | 22,553 | 22,294 | 21,684 | 21,216 | 21,089 |
| 54    | Professional and technical services           | 35,061 | 34,074 | 34,381 | 37,036 | 38,269 |
| 55    | Management of companies and enterprises       | 14,165 | 14,292 | 15,294 | 13,699 | 14,912 |
|       | Total   | 97,822 | 94,571 | 94,807 | 95,004 | 97,216 |

Source: Employment numbers are estimates calculated by Dr. Ken Lemke, Nebraska Public Power District using data from the U.S. Department of Labor, Quarterly Census of Employment and Wages, **www.bls.gov/cew/data.htm**.

#### **Commuting Patterns**

Table Six provides data from the 2010 U.S. Census, Local Employment Dynamics Program, showing commuting patterns for workers living in the city of Seward and Seward County. Data in Table Five indicate a significant number (and percentage) of residents in Seward and Seward County commuted outside of the county for employment. In the 2010, 1,752, or 56.1 percent of primary jobs held by residents of Seward were located in other counties. Also in 2010, 4,608 (61.7 percent) of the primary jobs held by Seward County residents were located in other counties. Lancaster County provided the largest number of primary jobs to the city of Seward (980) and Seward County (2,555) residents commuting to jobs outside Seward County. Douglas County provided the second largest number of jobs to workers commuting from both Seward (153) and Seward County (417) for employment in primary jobs.

| Table Six                                       |
|---|
| Seward and Seward County Residents Primary Jobs |
| by County where Jobs are Located, 2010          |

|                               | <u>Number of Jobs in County</u><br>City of |                            | Percent of All Jobs         |                            |  |
|-------------------------------|--|----------------------------|-----------------------------|----------------------------|--|
| County Where Jobs are Located | Seward<br>Residents                        | Seward County<br>Residents | City of<br>Seward Residents | Seward County<br>Residents |  |
| Seward                        | 1,370                                      | 2,858                      | 43.9%                       | 38.3%                      |  |
| Lancaster                     | 980  | 2,555                      | 31.4%                       | 34.2%                      |  |
| Douglas                       | 153  | 417                        | 4.9%                        | 5.6%                       |  |
| York                          | 87   | 242                        | 2.8%                        | 3.2%                       |  |
| Saline                        | 54   | 216                        | 1.7%                        | 2.9%                       |  |
| All Other Locations           | 478  | 1,178                      | 15.3%                       | 15.8%                      |  |
| Total Resident Jobs           | 3,122                                      | 7,466                      | 100.0%                      | 100.0%                     |  |

Source: U.S. Bureau of the Census, Local Employment Dynamics.

Table Seven provides data from the 2010 U.S. Census, Local Employment Dynamics Program, showing commuting patterns for workers with primary jobs located in Seward and Seward County. Data in Table Six indicate a significant number (and percentage) of residents outside the county commute to Seward and Seward County for employment.

In 2010, 1,043, or 39.5 percent of primary jobs in Seward were held by workers living outside Seward County. Also in 2010, 2,434 (46.0 percent) of the primary jobs in Seward County were held by workers commuting into the county. Lancaster County provided the largest number of workers commuting to primary jobs in Seward (310) and Seward County (751) in 2010. York County had second largest number of workers commuting into Seward County (213) and Saline County had the second largest number of workers commuting into Seward City (83) for employment in primary jobs.

| by County where Residents are Located, 2010 |  |               |             |                      |  |  |
|---|--|---------------|-------------|----------------------|--|--|
|   | Number of Primary Jobs Held Percent of |               |             | of Primary Jobs Held |  |  |
|   | City of                                | Seward County | City of     | Seward County        |  |  |
| County Where Workers Reside                 | Seward Jobs                            | Jobs          | Seward Jobs | Jobs                 |  |  |
| Seward                                      | 1,598                                  | 2,858         | 60.5%       | 54.0%                |  |  |
| Lancaster                                   | 310                                    | 751           | 11.7%       | 14.2%                |  |  |
| York  | 52                                     | 213           | 2.0%        | 4.0%                 |  |  |
| Saline                                      | 83                                     | 173           | 3.1%        | 3.3%                 |  |  |
| Douglas                                     | 48                                     | 102           | 1.8%        | 1.9%                 |  |  |
| All Other Locations                         | 550                                    | 1,195         | 20.8%       | 22.6%                |  |  |
| Total Employed Workers                      | 2,641                                  | 5,292         | 100.0%      | 100.0%               |  |  |

## Table SevenSeward and Seward County Primary Jobsby County where Residents are Located, 2010

Source: U.S. Bureau of the Census, Local Employment Dynamics.

#### **Education and Training Programs**

Educational institutions in the Lincoln and Omaha MSA provide a wide variety of postsecondary educational training programs. Table Eight contains a list technology related programs offered by the University of Nebraska and Nebraska Community Colleges at sites within the Lincoln and Omaha MSA.

#### Table Eight Selected Technology Programs and Degree University of Nebraska and Nebraska Community Colleges Located Within Lincoln & Omaha Metropolitan Statistical Areas (MSA)

| Maior                           |   | Degree<br>Offer<br>Under<br>Graduate | Degree<br>Offer |
|---------------------------------|---|--------------------------------------|-----------------|
| Major                           | Concentration                                 | Graduate                             | Graduate        |
| University of Nebraska-Lincoln  |   |                                      |                 |
| Computer Engineering            |   | BSCP,<br>BS                          |                 |
| Computer Science                |   | BA, BS                               | MS, PhD         |
| Information Technology          |   |                                      | PhD             |
| Information Technology          |   | BSEH                                 |                 |
| Space & Telecommunications      |   |                                      | LLM             |
| Telecommunications Engineering  |   |                                      | MS              |
| University of Nebraska at Omaha |   |                                      |                 |
| Computer Science                | Information                                   | BSCS                                 |                 |
|                                 | Assurance                                     |                                      |                 |
| Computer Science                | Internet                                      | BSCS                                 |                 |
|                                 | Technologies                                  |                                      |                 |
| Computer Science                | Software                                      |                                      | MS              |
| Computer Science                | Engineering<br>Telecommunications             |                                      | MS              |
| Information Assurance           | releconnitumeations                           | BS                                   | IVIS            |
| Information Assurance           |   | DS                                   | Graduate        |
| Information Assurance           |   |                                      | Certificate     |
| Information Technology          |   | BGS                                  | PhD             |
| Management Information Systems  |   | BGS,                                 | MS              |
|                                 |   | BSIS                                 |                 |
| Management Information Systems  | Applied Research<br>Methods in MIS            |                                      | MS              |
| Management Information Systems  | Decision Support &<br>Knowledge<br>Management | BSIS                                 |                 |

|  |                          | Degree<br>Offer | Degree              |
|--|--------------------------|-----------------|---------------------|
|  |                          | Under           | Offer               |
| Major                                    | Concentration            | Graduate        | Graduate            |
| Management Information Systems           | Electronic               |                 | MS                  |
|  | Commerce                 |                 |                     |
| Management Information Systems           | Health Informatics       |                 | MS                  |
| Management Information Systems           | i-Business               | BSIS            |                     |
|  | Application              |                 |                     |
|  | Development &            |                 |                     |
|  | Management               | Data            |                     |
| Management Information Systems           | Information              | BSIS            | MS                  |
|  | Assurance                |                 | <b>C</b> 1          |
| Management Information Systems           | Information              |                 | Grad<br>Cartificate |
| Management Information Systems           | Assurance                | BSIS            | Certificate         |
| Management Information Systems           | Internet<br>Technologies | D212            |                     |
| Management Information Systems           | IT Audit and             | BSIS            | MS                  |
| Wanagement information Systems           | Control                  | 0515            | NIS                 |
| Management Information Systems           | Project Management       |                 | MS                  |
| Management Information Systems           | Project Management       |                 | Grad                |
| Management Information Systems           | i roject irlanagement    |                 | Certificate         |
| Management Information Systems           | Systems Analysis         |                 | Grad                |
|  | and Design               |                 | Certificate         |
| Management Information Systems           | Telecommunications       |                 | MS                  |
| Nebraska College of Technical Agricultur | e, Curtis                |                 |                     |
| Agribusiness Management System           | Information Systems      | AAS             |                     |
| Metropolitan Community College Area      |                          |                 |                     |
| Computer Technology Transfer             | Computer Science         | AS              |                     |
| Computer Technology Transfer             | Management               | AS              |                     |
|  | Information Systems      |                 |                     |
| Electrical Technology                    | Information              | Specialist      |                     |
|  | Transport System         | Diploma         |                     |
| Electronics Technology                   | Computer                 | AAS             |                     |
|  | Electronics              |                 |                     |
| Electronics Technology                   | Microcomputer            | Cert            |                     |
|  | Repair                   | ~               |                     |
| Information Technology                   | Call Center              | Cert            |                     |
| Information Tasky along                  | Specialist               |                 |                     |
| Information Technology                   | Database                 | AAS             |                     |
| Information Technology                   | Administration           | Cort            |                     |
| Information Technology                   | Database Systems         | Cert            |                     |
| Information Technology                   | Database/Eb              | AAS             |                     |
|  | Programming              |                 |                     |

|  |                               | Dogues          |                 |
|--|-------------------------------|-----------------|-----------------|
|  |                               | Degree<br>Offer | Deerree         |
|  |                               | Under           | Degree<br>Offer |
| Major  | Concentration                 | Graduate        | Graduate        |
| Information Technology                             | Helpdesk                      | AAS             | Graduate        |
| Information Technology                             | IBM iSeries Systems           | Cert            |                 |
| Information Technology                             | IT Professional               | Specialist      |                 |
| 8;   | Enhancement                   | Diploma         |                 |
| Information Technology                             | Networking                    | AAS             |                 |
|  | Technology                    |                 |                 |
| Information Technology                             | Oracle Database               | Cert            |                 |
|  | Systems                       |                 |                 |
| Information Technology                             | UNIX/Linus                    | Cert            |                 |
|  | Operating Systems             |                 |                 |
| Information Technology                             | Web Development               | AAS             |                 |
| Mechanical Design Technology                       | Computer Aided                | Specialist      |                 |
|  | Design                        | Diploma         |                 |
| Mechanical Design Technology                       | Computer Aided                | Specialist      |                 |
| Microcomputer Office Professional                  | Drafting                      | Diploma<br>AAS  |                 |
| Microcomputer Office Professional                  |                               | Cert            |                 |
| Microcomputer Office Technology                    | Information                   |                 |                 |
| Microcomputer Office Technology                    | Technology                    | Cert            |                 |
| Microcomputer Office Technology                    | Office Applications           | Cert            |                 |
| Microcomputer Technology                           | Network Security              | Specialist      |                 |
| Wheroeomputer reenhology                           | and Computer                  | Diploma         |                 |
|  | Forensics                     | Dipionia        |                 |
| Microcomputer Technology                           | Network Technician            | Cert            |                 |
| Microcomputer Technology                           | Web Author                    | Cert            |                 |
|  |                               |                 |                 |
| Southeast Community College                        |                               |                 |                 |
| Business Information Technology                    | Administrative                | AAS             |                 |
| Business Information Technology                    | Legal                         | AAS             |                 |
| Business Information Technology                    | Medical                       | AAS             |                 |
| Business Information Technology                    | Medical                       | Diploma         |                 |
|  | Transcription                 |                 |                 |
| Business Information Technology                    | MicroSoft Office              | Cert            |                 |
| Computer Programing Technology                     |                               | AAS             |                 |
| Electronic Servicing & Electronic Engineering Tech | EET Computers &<br>Networking | AAS             |                 |
| Microcomputer Technology                           | Microcomputer                 | AAS             |                 |
| intercomputer reenhology                           | Programmer                    |                 |                 |
| Microcomputer Technology                           | Network Manager               | AAS             |                 |
| Microcomputer Technology                           | PC Support                    | AAS             |                 |
|  | Specialist                    |                 |                 |

| Major                    | Concentration    | Degree<br>Offer<br>Under<br>Graduate | Degree<br>Offer<br>Graduate |
|--------------------------|------------------|--------------------------------------|-----------------------------|
| Microcomputer Technology | Web Applications | AAS                                  |                             |
|                          | Programmer       |                                      |                             |

Source: Nebraska Coordinating Commission for Postsecondary Education, Directory of Postsecondary Institutions in Nebraska, www.ccpe.state.ne.us/PublicDoc/Ccpe/directory.asp.

In addition to offerings at state universities and communities colleges, Nebraska's independent colleges and universities and universities also provide educational programs at several sites within the Lincoln and Omaha MSAs. These include the following programs:

| Bellevue University  | Computer Information Systems Degree - Bachelor of Applied Science   |
|----------------------|---|
| Concordia University | Computer science - B.S. or a B.A. degree  |
| Creighton University | Computer Science - Associates Degree (AS)   |
| Doane College        | Information Science and Technology (BS)   |
| Grace University     | Computer Information Systems in Business (BS), Computer<br>Information Systems Software Programming (BS), Computer<br>Information Systems Web Networking (BS) |
| Midland University   | Computer Science (BS)   |
| Union College        | Computing (B.S.)  |

#### **Competitive Employment and Career Opportunities**

An employer providing high technology labor industries jobs with competitive wages and benefits and offering career opportunities would be a welcome addition to the employment base in the Seward, Nebraska Laborshed's Metropolitan Counties. The expected response to such employment opportunities would be significant, and it is anticipated that there would be an adequate labor supply response for a prospective new employer offering competitive wages and benefits in the Seward area. The workforce and commuting data presented in this report illustrate quite clearly that there is a sufficiently large labor force and population base living within the Seward, Nebraska Laborshed's Metropolitan Counties and that significant numbers of persons living in the area are commuting to other areas for employment. In conclusion, the data and analysis presented in this report indicate that the Seward, Nebraska Laborshed's Metropolitan Counties and Seward County would be able to provide a significant number of dedicated and skilled workers to meet the needs of additional high technology labor industries employers in the area. While this report has not estimated a precise number of people that might be available to a prospective new employer in the Seward area, it is anticipated that if attractive working conditions with competitive wages and employee benefits were offered, a prospective new employer would be able to select their workforce from a substantial pool of applicants.

Questions concerning this report and the supporting data should be addressed to:

Kenneth M. Lemke, Ph.D. Economist Nebraska Public Power District P.O. Box 499 Columbus, Nebraska 68602-0499 (402) 563-5535 or (800) 282-6773, Ext. 5535 E-Mail: kmlemke@nppd.com