Final Report

A Profile of Lincoln’s Advanced Manufacturing Industry Cluster

Prepared for the Lincoln Partnership for Economic Development

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A Profile of Lincoln’s Advanced Manufacturing Cluster

Introduction

Advanced manufacturing, and its related services, has been a major growth industry in Lincoln, Nebraska for over two decades. During this time the breadth of the industry has expanded with the increased dissemination of technology to nearly every industry and sector of the economy. Advanced manufacturing business benefit from Lincoln’s central location, highly educated workforce, low labor costs, low cost of living, low traffic congestion costs, and business-friendly climate.

Why Lincoln?

Lincoln, a centrally-located community of nearly 300,000, is well positioned to cultivate this industry through its highly educated workforce, existing advanced manufacturing technology presence, extensive university research and outstanding quality of life.

Education Attainment, Age 25 and Over, Lincoln, NE

<table>
<thead>
<tr>
<th>Education Level</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Graduate</td>
<td>10%</td>
</tr>
<tr>
<td>High School Graduate</td>
<td>25%</td>
</tr>
<tr>
<td>Some College, No Degree</td>
<td>24%</td>
</tr>
<tr>
<td>Associate or Bachelor’s Degree</td>
<td>30%</td>
</tr>
<tr>
<td>Graduate or Professional Degree</td>
<td>11%</td>
</tr>
</tbody>
</table>

Lincoln offers the ambiance of a friendly small town and the amenities, attractions and entertainment opportunities of a major metropolitan area. Lincoln is both the state capital and home to the flagship campus of the University of Nebraska; as a result it provides a greater range of offerings than might be expected in a community of its size. Efficient transportation, a stable business environment, advanced health-care technology and an excellent educational system are just a few of the reasons why Lincoln ranks highly in livability studies. As described in the pages that follow, Lincoln has significant cost advantages in terms of cost-of-living, wages, space costs, and other business costs. The University of Nebraska-Lincoln provides research services while colleges throughout the region graduate students in relevant majors for the advanced manufacturing industry. Lincoln also has an established cluster of advanced manufacturing firms.
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Cost Comparisons

Lincoln’s cost of living compares favorably with comparison metropolitan areas nationwide.¹

Cost of Living Composite Index, Q1 2010

In addition to Lincoln’s exceptional amenities and educated workforce, Lincoln has nearly the lowest commercial space costs among peer metropolitan areas.² These particular rent costs refer to modern buildings with space dedicated to research/product development, or buildings in industrial settings - building space especially well suited to the advanced manufacturing industry.

Annual Rent per Square Foot:
Effective Average for Industrial Properties, 2009

Note: Effective average for industrial properties not available for Atlanta.
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Lincoln also ranks amongst the lowest with regard to relative wage costs. This completes a perfect combination of unique amenities, low cost of living, and an attractive business environment through a highly educated workforce.

Relative Wages for Production Pay

We provide detailed salary information for selected advanced manufacturing occupations on the next page. Cost comparisons for workers compensation costs, average unemployment insurance tax rate on taxable wages, average price for industrial gas per million BTU, industrial electric service average price per kilowatt, and top state corporate income tax rate can be found on page 5. Lincoln is among the three lowest cost metro areas among comparison cities for workers compensation costs, average unemployment insurance tax rate, price for industrial gas, and industrial electric service average price.
# A Profile of Lincoln’s Advanced Manufacturing Cluster

**Average Annual Salary, Lincoln MSA, 2009**

<table>
<thead>
<tr>
<th>Total All Occupations</th>
<th>Entry</th>
<th>Experience</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>$18,200</td>
<td>$47,365</td>
<td>$30,960</td>
<td></td>
</tr>
</tbody>
</table>

**Engineering Occupations**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Entry</th>
<th>Experience</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Engineers</td>
<td>$53,775</td>
<td>$74,065</td>
<td>$65,370</td>
</tr>
<tr>
<td>Chemical Engineers</td>
<td>$37,245</td>
<td>$65,225</td>
<td>$49,630</td>
</tr>
</tbody>
</table>

**Sales and Related Occupations**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Entry</th>
<th>Experience</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products</td>
<td>$30,460</td>
<td>$64,480</td>
<td>$47,190</td>
</tr>
</tbody>
</table>

**Life Physical and Social Science Occupations**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Entry</th>
<th>Experience</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemists</td>
<td>$36,195</td>
<td>$59,065</td>
<td>$47,460</td>
</tr>
<tr>
<td>Chemical Technicians</td>
<td>$23,445</td>
<td>$37,335</td>
<td>$31,465</td>
</tr>
</tbody>
</table>

**Production Occupations**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Entry</th>
<th>Experience</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>First-Line Supervisors/Managers of Production</td>
<td>$37,405</td>
<td>$63,930</td>
<td>$52,485</td>
</tr>
<tr>
<td>Tool and Die Makers</td>
<td>$38,345</td>
<td>$51,275</td>
<td>$47,125</td>
</tr>
<tr>
<td>Mixing and Blending Machine Setters, Operators, and Tenders</td>
<td>$22,630</td>
<td>$34,010</td>
<td>$27,885</td>
</tr>
<tr>
<td>Machinists</td>
<td>$22,165</td>
<td>$37,580</td>
<td>$31,880</td>
</tr>
<tr>
<td>Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic</td>
<td>$22,700</td>
<td>$36,210</td>
<td>$30,745</td>
</tr>
<tr>
<td>Inspectors Testers Sorters Samplers and Weighers</td>
<td>$23,985</td>
<td>$41,490</td>
<td>$35,285</td>
</tr>
<tr>
<td>Welders, Cutters, Solderers, and Brazers</td>
<td>$28,800</td>
<td>$38,045</td>
<td>$36,460</td>
</tr>
<tr>
<td>Dental Laboratory Technicians</td>
<td>$19,945</td>
<td>$45,455</td>
<td>$33,475</td>
</tr>
<tr>
<td>Packaging and Filling Machine Operators and Tenders</td>
<td>$20,910</td>
<td>$30,660</td>
<td>$26,930</td>
</tr>
<tr>
<td>Team Assemblers</td>
<td>$20,845</td>
<td>$36,720</td>
<td>$34,635</td>
</tr>
<tr>
<td>Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic</td>
<td>$18,765</td>
<td>$32,135</td>
<td>$25,245</td>
</tr>
<tr>
<td>Electrical and Electronic Equipment Assemblers</td>
<td>$19,150</td>
<td>$32,430</td>
<td>$24,915</td>
</tr>
</tbody>
</table>

**Transportation and Material Moving Occupations**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Entry</th>
<th>Experience</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packers and Packagers, Hand</td>
<td>$14,700</td>
<td>$25,215</td>
<td>$18,720</td>
</tr>
</tbody>
</table>

UNL Bureau of Business Research Report prepared for the [Lincoln Partnership for Economic Development](http://www.LINCOLNecdev.com), 06-26-10
### A Profile of Lincoln’s Advanced Manufacturing Cluster

#### Selected Business Costs for Advanced Manufacturing Industry

(Three Lowest Cost Metro Areas Listed in Bold)

<table>
<thead>
<tr>
<th>Metropolitan Area¹</th>
<th>Workers Compensation costs per $100 of Manufacturing Payroll 2009 (State Average)</th>
<th>Average Unemployment Insurance Tax Rate on Taxable Wages 2007 (State Average)</th>
<th>Right-to-Work State?</th>
<th>Average Price Industrial Gas/ Million Btu 2007 (State Average)</th>
<th>Av. Price/KWH Industrial Service, Jan 2009 (City)</th>
<th>Top State Corporate Income² Tax Rate 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lincoln</td>
<td>$3.53</td>
<td>1.7%</td>
<td>Yes</td>
<td>$7.73</td>
<td>$0.044</td>
<td>$0.059</td>
</tr>
<tr>
<td>Atlanta</td>
<td>$3.99</td>
<td>1.5%</td>
<td>Yes</td>
<td>$8.59</td>
<td>$0.072</td>
<td>$0.091</td>
</tr>
<tr>
<td>Charlotte</td>
<td>$3.54</td>
<td>1.9%</td>
<td>Yes</td>
<td>$9.67</td>
<td>$0.046</td>
<td>$0.053</td>
</tr>
<tr>
<td>Chicago</td>
<td>$5.29</td>
<td>3.7%</td>
<td>No</td>
<td>$8.72</td>
<td>$0.092</td>
<td>$0.126</td>
</tr>
<tr>
<td>Dallas</td>
<td>$4.73</td>
<td>1.9%</td>
<td>Yes</td>
<td>$6.55</td>
<td>$0.126</td>
<td>$0.120</td>
</tr>
<tr>
<td>Huntsville (AL)</td>
<td>$3.87</td>
<td>1.4%</td>
<td>Yes</td>
<td>$8.43</td>
<td>$0.075</td>
<td>$0.085</td>
</tr>
<tr>
<td>Kansas City</td>
<td>$3.99</td>
<td>2.2%</td>
<td>No</td>
<td>$10.68</td>
<td>$0.047</td>
<td>$0.058</td>
</tr>
<tr>
<td>Milwaukee</td>
<td>$3.52</td>
<td>2.7%</td>
<td>No</td>
<td>$9.32</td>
<td>$0.099</td>
<td>$0.099</td>
</tr>
<tr>
<td>Minneapolis/St. Paul</td>
<td>$3.81</td>
<td>1.7%</td>
<td>No</td>
<td>$7.42</td>
<td>$0.057</td>
<td>$0.068</td>
</tr>
<tr>
<td>Newark (NJ)</td>
<td>$5.07</td>
<td>2.0%</td>
<td>No</td>
<td>$9.33</td>
<td>$0.123</td>
<td>$0.125</td>
</tr>
</tbody>
</table>

¹ For metropolitan areas located in multiple states (Chicago, Kansas City, and Newark), we utilize state averages from the state where the metropolitan areas’ economic activity is concentrated (Illinois, Missouri, and New Jersey, respectively).

² Tax that may be eligible for use for credits earned in state incentive program.

Sources: Tax Foundation for corporate tax rates, Lincoln Electric System for industrial electric service rates, and Nebraska Department of Economic Development for workers’ compensation costs, unemployment insurance rates, average natural gas prices, and right-to-work.
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Education Resources

Lincoln’s Advanced Manufacturing sector benefits from the vast array of programs that support the development of a specialized workforce for this industry.

The University of Nebraska-Lincoln (UNL) and Nebraska Wesleyan University both provide an excellent array of programs related to the field. In addition to which there are a number of programs and other institutions tailored to the needs of the advanced manufacturing production sector. While UNL is certainly the backbone of engineering research and education in Lincoln, there are many institutions that offer 2-year and 4-year degree programs in this field: Concordia College, Doane College, Kaplan University, Nebraska Institute of Technology, Nebraska Wesleyan University, Southeast Community College, and Union College. In particular, Southeast Community College has an extensive program in Mechanic and Repair Technologies.
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In a typical year, the colleges and universities in Lincoln graduate nearly 400 students with bachelor’s degrees in majors related to this sector, another 470 with associate’s degrees, and well over 100 with post-graduate degrees.

<table>
<thead>
<tr>
<th>Bachelor's Degrees Awarded</th>
<th>Concordia University</th>
<th>Doane College</th>
<th>Kaplan University</th>
<th>Nebraska Wesleyan University</th>
<th>Southeast Community College</th>
<th>Union College</th>
<th>UNL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural/Biological Engineering and Bioengineering</td>
<td>10</td>
<td>4</td>
<td>55</td>
<td>11</td>
<td>22</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Biochemistry</td>
<td>12</td>
<td>6</td>
<td>4</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biomedical/Medical Engineering</td>
<td>1</td>
<td>1</td>
<td>6</td>
<td>4</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Engineering, General</td>
<td>36</td>
<td>2</td>
<td>32</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer and Information Sciences, General</td>
<td>2</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrical, Electronics and Communications Engineering</td>
<td>84</td>
<td>53</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering Mechanics</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering, Other</td>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial Production Technologies/Technicians, Other</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial Technology/Technician</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine Tool Technology/Machinist</td>
<td>79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturing Engineering</td>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>36</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics, General</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quality Control Technology/Technician</td>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Welding Technology/Welder</td>
<td>79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A: Associates Degrees

Source: http://nces.ed.gov/collegenavigator/
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Research and Industry Services
The advanced manufacturing sector also benefits from the research facilities available at the University of Nebraska-Lincoln (UNL). These include:

Jeffrey S. Raikes School of Computer Science and Management
An innovative integration of computer science and management education, including a 2-year applied software design studio. The Jeffrey S. Raikes School develops leaders for a technology driven world. It is the recognized leader in interdisciplinary computer science and business management education for high ability and highly motivated students. The Raikes School is unique in that it is the premier program bringing together the domain of computer science and information technology with business, thereby developing leaders and entrepreneurs for the increasingly information technology-driven business world.

The Design Studio is the capstone learning experience of the Jeffrey S. Raikes School. In Design Studio, student teams partner with sponsoring businesses and government agencies to develop real-world, software-based solutions meeting their client’s needs. Students gain project management, teamwork, and leadership skills essential in today's professional world. Design Studio gives students and clients the ability to interact and create innovative software based solution, while benefiting from the support of Raikes School faculty and facilities.

For more information, see the source of this passage: http://raikes.unl.edu/

Post Graduate Degrees (M.A. & Ph.D.) Awarded

<table>
<thead>
<tr>
<th>Field of Study</th>
<th>UNL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural/Biological Engineering and Bioengineering</td>
<td>2</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>16</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry, General</td>
<td>7</td>
</tr>
<tr>
<td>Computer and Information Sciences, General</td>
<td>24</td>
</tr>
<tr>
<td>Electrical, Electronics and Communications Engineering</td>
<td>8</td>
</tr>
<tr>
<td>Engineering Mechanics</td>
<td>2</td>
</tr>
<tr>
<td>Engineering, Other</td>
<td>37</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>18</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>11</td>
</tr>
<tr>
<td>Physics, General</td>
<td>2</td>
</tr>
</tbody>
</table>

Source: http://nces.ed.gov/collegenavigator/
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College of Engineering
In 2009, the College of Engineering celebrated its 100th anniversary. As the only engineering college in Nebraska the UNL College of Engineering provides its students with professors with national and international expertise in their fields, the latest technology, quality facilities, a vast network of successful alumni and friends of the college, and caring staff.

The college is located in two cities (Lincoln and Omaha) on three campuses (City Campus in Lincoln, the East Campus in Lincoln) and currently has 13 departments with a total of 3,089 students with 128 full time faculty members. The undergraduate program offers majors in: Agricultural Engineering, Architectural Engineering, Biological Systems Engineering, Chemical Engineering, Civil Engineering, Computer Engineering (Lincoln and Omaha), Construction Management, Construction Engineering, Electrical Engineering, Electronics Engineering, Industrial Engineering, and Mechanical Engineering. The graduate program offers Master of Science Degrees in 11 areas including Industrial Management Systems Engineering and Telecommunications Engineering; Master of Engineering with concentrations in four areas; and PhDs with specializations in 12 areas including Chemical & Biomolecular Engineering and Materials Engineering.

The college is at the forefront of cutting edge engineering research and is strong and growing especially in the areas of nanotechnology, transportation, structures, computer and electronics engineering, and materials research. The college is adding emphasis on biomechanics, materials and medicine; renewable energy production, distribution and consumption; and cyber infrastructures. The college is home to the Nebraska Center for Materials and Nanoscience, and the Center for Nontraditional Manufacturing Research

For more information, see the source of this passage: http://engineering.unl.edu/

Department of Computer Science & Engineering
Graduates from this UNL department are highly capable, creative individuals whose skills allow them to work seamlessly across a broad spectrum of careers. The department graduates 30 students with Bachelor’s degrees and another 25 students with graduate degrees every year. The department also conducts state-of-the-art research in software engineering, informatics, and systems. The faculty receives funding from a variety of sources including: National Science Foundation (NSF), U.S. Department of Agriculture, Army Research Office, Airforce Office of Scientific Research, NASA, National Institute of Health, Microsoft, and Intel.

The department also hosts a number of research labs and facilities that form an important hub for information-technology R&D in the state of Nebraska:

The Abacus Distributed Storage Lab, aims to design and develop distributed and parallel storage systems with high scalability, performance, reliability and availability.

ANDES, Advanced Networking & Distributed Experimental Systems Lab fosters research in the following core areas: high-speed computer network architectures and protocols, networking support for multimedia services, distributed heterogeneous computing, and real-time systems and protocols.
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The Constraint Systems Lab investigations cover both theoretic and practical aspects of Constraint Processing, a sub-area of Artificial Intelligence. Constraint Processing provides powerful tools for modeling and solving effectively a wide variety of combinatorial problems spanning over Computer Science, Engineering, and Management.

ESQuaReD, (read as e²), the laboratory for Empirically-based Software Quality Research and Development, performs fundamental research on methodologies and tools for creating sufficiently dependable software. The focus areas are: software verification and validation, program analysis, empirical software engineering, software modeling and design, and domain specific software engineering techniques.

For more information, see the source of this passage: http://cse.unl.edu/

Holland Computing Center (HCC)
HCC provides various services to researchers associated with any campus of the University of Nebraska system. Agreements are also in place with corporate and non-University researchers who share common interests or needs related to high performance computing resources. The HCC houses and manages a number of supercomputers serving a broad range of functions. Firefly, a 21 TFlop supercomputer is used by scientists and engineers to study topics such as nanoscale chemistry, subatomic physics, meteorology, crashworthiness, and artificial intelligence. Other resources with specific roles include Merritt for shared memory processing; Red for LHC grid computing, analysis of the CMS particle physics experiment and deployment on the open science grid; and PrairieFire a 256 processor supercomputer that enables advanced simulation to perform product analysis, design, development, testing and manufacturing in a virtual environment.

For more information, see the source of this passage: http://hcc.unl.edu/
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University of Nebraska Technology Park
The University of Nebraska Technology Park is a joint endeavor of the University of Nebraska, private sector investors and the University of Nebraska Foundation which was established in 1997. The mission of the NUTP is to enhance the transfer of technology from the University to the marketplace, foster interaction between technology businesses and the University, nurture startup and emerging technology firms, and promote technology based economic development in Nebraska.

The NUTP provides the full spectrum of amenities and services for both new and established companies: a successful business incubator program in the Technology Development Center (OTP); office and lab space for lease at highly competitive rates within One Technology Place; and many building sites for additional multi-tenant buildings or stand-alone companies. NUTP allowable land used include: 1) laboratories and related facilities intended for basic and applied research, development of technology based products and services or testing of technology based products and services; 2) facilities intended for production or assembly of products of a technological natures, provided production is supported by on-site research or production development activities; 3) pilot plants in which prototypes production process can be tested and used for assembly of products of a technology nature; 4) corporate, regional and divisional headquarters of technology based or knowledge driven companies or organizations; 5) technology dependent or computer based facilities dedicated to the processing of data or analysis of information, provided that theses information services are supported by on-site research or product development; or 6) any other facilities reasonably related to the intended mission of the technology park provided these users are consistent with the use permit approved by the University of Nebraska Technology Park LLC.

The NUTP provides access to university resources, technology transfer assistance, research funding resources, professional office services, and high-speed data services. The business incubator program housed in the Technology Development Center (TDC) assists clients in launching new software, engineering, business services, biotechnology, and electronics firms. The TDC nurtures start-up and emerging technologies, and helps foster spin-off companies from the University of Nebraska. The TDC tailors a program to fit each company’s individual circumstances, providing an integrated package of office, administrative and management services. This may include a wet lab, production or office space, telephones and answering services. Business advisors are also available to assist with day-to-day operational issues. Between 1997 and 2006, the park helped launch 30 new companies. NUTP also houses the One Technology Place (OTP) which serves as a multi-tenant facility designed to offer midsized companies and TDC graduates room to grow. OTP provides an advantageous location, technical support, redundant fiber optic telecommunications service, an on-site OC -12 Sonet Node, fiber optic interconnectivity of park buildings, an on-site co-location facility for mission critical data storage, a “smart” auditorium available for internet based training, video-conferencing, access to University of Nebraska facilities and a student internship program.

Several companies with ties to advanced manufacturing are currently located at NUTP. Z3 Technology, LLC designs and produces electronics hardware and proprietary software. MAS Systems LLC develops, manufacturers and markets Arcade Systems, both boards and components, as well as all gaming hardware.

For more information, see the source of this passage: http://www.nutechpark.com/
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Nebraska Innovation Campus (NIC)
The NIC is a unique collaboration between the University Nebraska at Lincoln, and State of Nebraska to develop a state-of-the-art innovation and research campus that will produce substantial new public and private investment and a significant number of new high-quality jobs for the state and local economy. In particular the NIC will allow UNL to expand its research capabilities, while improving commercialization of its discoveries.

The NIC is strategically located with excellent access to an interstate, highway, rail service, and two regional airports. The NIC will take advantage of special legislative measures that have created a progressive, pro-business tax climate. The NIC will offer a central location for UNL research. The NIC will serve the dual purpose of providing a flexible space that will house and expand the research of existing facilities, while promoting interdisciplinary projects.

The NIC will have a central conferencing facility well suited for both small and large group meetings and seminars. The facility will include a business incubator, of approximately 20,000 square feet, until larger facilities are constructed on the Campus. This initial-stage business incubator will eventually become the central business development center of the NIC. The NIC will eventually house a state-of-the art business incubation facility, the Innovation Center, that will be in the range of 40,000 to 45,000 square feet, include flexible wet and dry laboratories, a clean room and high-bay demonstration space. The Innovation Center will also serve to expand the entrepreneurship and internship programs that are already thriving at UNL - achieved through substantial integration between the NIC and the exceptional education and research programs at UNL.

For more information, see the source of this passage: http://innovate.unl.edu/
A Profile of Lincoln’s Advanced Manufacturing Cluster

Lincoln’s Advanced Manufacturing Sector

Lincoln’s Advanced Manufacturing sector has includes a broad range of major employers including: Pfizer Inc., Lincoln Industries, Kawasaki Motors Manufacturing Corp USA, Novartis Consumer Health Inc., and Goodyear Engineered Products. In total, Lincoln is home to dozens of advanced manufacturers. Most of these firms is listed below. Product descriptions and employment estimates are from the Nebraska Manufacturers’ Directory:

Addax Inc.
Carbon fiber rollers
www.addax.com
Local employment: 20-49

All Aluminum Window Company
Aluminum windows & doors
Local employment: 1 - 9

Axis Technologies
Self-contained fixed-level dimming & daylight harvesting control systems
www.axistechnologyinc.com
Local employment: 1 - 9

Benchmark Biolabs
Laboratory services & reagents for veterinary vaccine researchers; mfg vaccines
www.benchmarkbiolabs.com
Local employment: 20-49

Capital Steel
Steel beams for bridges
Local employment: 50 - 99

Catalina Iron Works LLC
Ornamental iron; book handling equipment
Local employment: 1 - 9

Douglas Manufacturing
Metal election equipment & media storage
www.demanddouglas.com
Local employment: 20-49

Dynamic Fusion Inc.
Configuration, fabrication & installation of equipment for flour & feed mills
Local employment: 1 - 9

Eidos Corporation
Ergonomic seating devices
www.eidosergonomics.com
Local employment: 1 - 9

Energy Recovery International
Heat recovery steam generators for a wide variety of waste heat applications
www.hrsg.com
Local employment: 250 - 499

Four Seasons Paint Manufacturing
Custom industrial finishes for the OEM & after-market industries
www.fourseasonspaint.com
Local employment: 1 - 9

Geist Manufacturing
Power extensions, outlet strips & surge suppressors; horizontal & vertical power strips
www.geistmanufacturing.com
Local employment: 50 - 99

Geist Plastics
Custom profile extrusion for the electrical, agricultural and industrial markets
www.geistplastics.com
Local employment: 50 - 99

Goodyear Engineered Products
Power transmission products
www.goodyear.com

Havelock Aluminum
Aluminum storm & screen windows & doors
Local employment: 1 - 9
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Heartland Optical
Industrial safety glasses; sunglasses & contact lenses
www.heartlandoptical.com
Local employment: 1 - 9

HTI Plastics Inc.
Thermoplastic injection molded prods including pharma, food & animal health packaging
www.htiplastic.com
Local employment: 50 - 99

Hughes Brothers Inc.
Wood, metal & fiberglass products, including fiberglass rebar
Local employment: 250 - 499

Industrial Maid LLC
Air filtration & ventilation products
www.industrial-maid.com
Local employment: 1 - 9

Intometal Inc.
Metal fabrication & machine tooling
www.intometal.com
Local employment: 50 - 99

Kawasaki Motors Manufacturing Corp. USA
Rail passenger cars, motorcycles, industrial robots, utility vehicles
www.kawasaki.com
Local employment: 1000-1499

Land and Sky Manufacturing
Memory foam, natural latex, flotation & air mattresses, contour pillows & mattress pads
www.landandsky.com
Local employment: 50 - 99

LENCO PMC Inc.
Custom injection molding, two-color & over molding, mold design, molding part assembly
www.lencopmc.com
Local employment: 100 - 249

Lincoln Industries
Custom & production plating, metal anodizing & hard coating
www.lincolnindustries.com
Local employment: 500 - 999

Lincoln Tool & Design Co.
Custom tool, die & machine shop services; plastic injection molding
www.lintool.com
Local employment: 20 - 49

Linweld Inc.
Industrial, medical & specialty gases; welding equipment & supplies
www.linweld.com
Local employment: 100 - 249

Mapes Industries
Laminated architectural panels, canopies & walkway covers
www.mapes.com
Local employment: 50 - 99

Megabase Research Products
Automated instruments for DNA analysis; immunochemical reagents
www.pcrjet.com
Local employment: 1 - 9

Midwest Steel Works Inc.
Structural steel fabrication, metal fabrication, steel joists, stairs & railings, metal decking
www.midweststeelworks.com
Local employment: 50 - 99

Nature Technology
DNA vector development
www.natx.com
Local employment: 10 - 19

Nebraska Boiler
Industrial water tube boilers
www.neboiler.com
Local employment: 100 - 249

Novartis Consumer Health Inc.
Over-the-counter pharmaceuticals
www.us.novartis.com
Local employment: 500 - 999

Parker Hannifin-Coupling Division
Couplings, valves, cylinders; fluid system components
A Profile of Lincoln’s Advanced Manufacturing Cluster

**Pfizer Inc.**
Veterinary pharmaceuticals & biological
[www.pfizer.com](http://www.pfizer.com)
Local employment: 500 - 999

**Rapid Reel**
Industrial, air, garden & power cord reels
[www.rapidreel.com](http://www.rapidreel.com)
Local employment: 10 - 19

**Rivers Metal Products Inc.**
Custom metal fabrication, rotational molds, trailer parts; materials sales & processing
[www.riversmetal.com](http://www.riversmetal.com)
Local employment: 50 - 99

**SiteScapes Inc.**
Powder-coated steel commercial outdoor furniture
[www.sitescapesonline.com](http://www.sitescapesonline.com)
Local employment: 1 - 9

**Speedway Motors Inc.**
Specialty automotive products for racing & street rod markets
[www.speedwaymotors.com](http://www.speedwaymotors.com)
Local employment: 100 - 249

**Square D Company**
Electronic circuit breakers
[www.squared.com](http://www.squared.com)
Local employment: 250 - 499

**TMCO Inc.**
Metal fabrication & powder coating
Local employment: 100 - 249

**Tri-Con Industries Stamping Plant**
Press & welding for automotive seat frames
[www.tciltd.com](http://www.tciltd.com)
Local employment: 100 - 249

**Van Sickle Paint Manufacturing Inc.**
Interior & exterior paints, stains, coatings, sealants & lubricants
[www.vansicklepaint.com](http://www.vansicklepaint.com)
Local employment: 10 - 19

**Yasufuku USA Inc.**
Rubber & plastic products for recreational vehicles & automobiles
[www.yuinc.com](http://www.yuinc.com)
Local employment: 50 - 99

www.parker.com
Local employment: 100 - 249