

VisionTulsa

2007



Vision 2025 is becoming reality thanks to Tulsans who believed in its destiny. Thanks to them, Tulsa is destined for greatness.

HighTech.

Vision 2025 set the course for Tulsa, but turning it into a hub of high-tech activity was destiny. The vision grew from the wisdom of leaders committed to moving Tulsa forward. Drawing from its strong aviation, energy, health, and manufacturing industries, Tulsans began building a new economy driven by technology.

The Helmerich Advanced Technology Research Center on the OSU-Tulsa campus will attract internationally-known research faculty and dollars to Tulsa. The 123,000-square-foot research facility—a first in northeastern Oklahoma—is scheduled to open in November 2007. The center will house 40 OSU faculty and 100 graduate

students intent on developing next generation composites and advanced materials for Tulsa industries.

“Underneath that umbrella there will be research specialties in nano, aerospace, and biomaterials,” said Stephen McKeever, OSU’s Vice President for Research and Technology Transfer.

“Aerospace and energy are two clusters that we have a concentration of here in northeastern Oklahoma,” said OSU-Tulsa President Gary Trennepohl. “It’s easy to see that advanced materials make a whole lot of sense to both of these industries.” Williams has already funded a research chair to fuel energy-related research. The \$51 million center is being financed with \$30 million from Vision

2025, \$12 million from the state, and \$9 million from Walter and Peggy Helmerich.

Construction of the center coincides with a nanotechnology economic development incentive act passed by the most recent state legislature, said Jim Mason, executive director of the Oklahoma Nanotechnology Initiative. The act provides \$2 million to help Oklahoma companies adopt nanotechnology processes to improve their products. “It is particularly interesting in Tulsa because there are a number of things happening that create opportunity for growth in nanotechnology,” said Mason.

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Above: The Helmerich Advanced Technology Research Center on the OSU—Tulsa campus will focus on next generation composites and advanced materials used by many Oklahoma industries.

Right: Dectectors or "dosimeters" measure radiation in space, then are tested for a response in OSU's radiation dosimetry laboratory at the Oklahoma Technology and Research Park.



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The National Science Foundation Experimental Program to Stimulate Competitive Research supports Oklahoma university research projects in nanotechnology and plant diversity. A study of plant viruses on the Tallgrass Prairie Preserve will help Oklahoma scientists better understand viruses that threaten crops or could be used as bioterror weapons. "Oklahoma faculty working in nanoscience hope to take their research to the next level, but that requires bringing in some nanotechnology stars", says Warren T. Ford at OSU who leads the effort. Investing in critical research ensures that Tulsa, the state of Oklahoma, and the United States continue to lead in opportunity and innovation. Tulsa Community College received its first NSF grant in 2006. The \$384,000 grant will incorporate biotechnology into the science classroom in public



An OSU biosafety team member prepares a robotics systems central in the screening of new compounds to fight emerging bacterial pathogens.

schools. Demand in Oklahoma for a biotechnology workforce is expected to climb by 26 percent. "TCC will play a critical role for research in the Tulsa area by educating future lab technicians, scientists, and medical personnel," said President Tom McKeon.

The Oklahoma Center for the Advancement of Science and Technology (OCAST)—the state's economic development agency—awarded \$4 million to 30 Oklahoma health research projects in 2006,

including projects at OSU's Center for Health Sciences in Tulsa and the University of Tulsa. Michael Carolina, OCAST executive director, says the investment in research will attract another \$19 million to the state in private and federal investments.

Since 1998, 19 Tulsa-area companies have received \$2.15 million from an OCAST-funding program responsible for creating hundreds of high-tech jobs, and generating almost \$140 million in angel and venture capital. Collectively, these companies have raised \$25.7 million in equity capital, or 12 times the total award amount. Tom D. Walker, executive vice president and chief operating officer with i2E's Tulsa office, said such early-stage risk capital helps high-tech companies generate funds from private sources.

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SPONSOR PROFILE. Xeta Technologies

XETA Technologies, founded in 1981, is a market leader in enterprise-class communications solutions, installation, and service.

Building on its success as the niche dominant provider of call accounting systems for the hospitality industry, XETA has broadened its focus, and today boasts competencies in traditional voice, Voice Over Internet Protocol (VOIP) solutions, and data delivery.

As an Avaya Platinum Business Partner and a Nortel Networks Elite Advantage Partner, XETA provides for more than 16,000 customers across the U. S. with the most extensive line of available communications products—from traditional PBX equipment, to converged IP networks and wireless solutions.

In addition, XETA bundles the complete array of voice, data, wireless and



messaging products and services in a consolidated offering providing customers with comprehensive, outsourced-communication solutions.

XETA is recognized for its nationwide service reach, unmatched expertise, and a 24x7x365 contact center located in Broken Arrow, Oklahoma.

SPONSOR PROFILE. Cox Communications



Cox Communications, the nation's third-largest cable television provider, has long proven to be a leader among Oklahoma companies. Cox came to this great state in 1979 and has been dedicated to serving their customers and their community ever since. In the last five years, Cox has invested \$600 million in infrastructure to build a state-of-the-art communications network in Oklahoma. With nearly 2,000 employees statewide, Cox focuses on providing high-paying, skilled jobs.

In 2005, Cox contributed more than \$100 million in payroll taxes and salaries to their local employees and the Oklahoma

economy. Cox invests in improving the skills and knowledge of their people and spent 52,000 hours last year training employees with customer contact responsibility.

Cox Communications has a strong tradition of giving back to the communities they serve. Cox's local support has reached countless people as they contribute nearly \$25 million each year in the form of cash and goods and services to over 200 nonprofit organizations such as Special Olympics, Juvenile Diabetes Research Foundation, United Way, Boys and Girls Club, and many more. Cox is committed to

education and the learning environment for Oklahoma's school children. As part of this continuing commitment, Cox provides free cable and internet service to more than 600 Oklahoma schools.

Cox Communications continues to be an industry leader and is constantly updating their products and services to stay connected with changing technology. Cox will continue to expand their digital and high-definition channel lineup as well as increase internet speeds to accommodate their customers. Cox Communications is proud to serve Oklahoma and will continue to invest in their employees and their community.

SPONSOR PROFILE. Oklahoma Technology and Research Park

A New Knowledge Community for Emerging Technology Companies

Oklahoma Technology and Research Park (OTRP) provides high-value advantages to growth companies developing and marketing emerging technologies and seeking fruitful academic-business partnerships. Leases are available for lab/office space in multi-tenant buildings, in addition to sites for build-to-suit or owner-developed facilities.

The Oklahoma State University Research Laboratory at Venture I resulted from seven high-tech labs being moved from OSU's campus to Venture I, the Park's first multi-tenant lab building. These include: Electron Microprobe, Inorganic Coatings and Corrosion Prevention, Institute for Protective Apparel Research and Technology, Microscopy, Molecular

Diagnostics and Biosensor Technology, Molecular Microbial Ecology, and Radiation Dosimetry.

Companies choose OTRP as a location that affords collaboration with research activities in Venture I and at nearby OSU. OTRP's first company, Nomadics, Inc., specializes in advanced materials, sensors, and instrumentation. Lucas Newman Science and Technologies, Inc. chose to colocate its research and development functions with OSU laboratories to further its work on radiation measurement systems for water, soil, food, and animals. Eril Research, which specializes in radiation measurement, especially for NASA's space crews and

military pilots, relocated from San Francisco to nurture collaborative ventures with OSU researchers.

OTRP creates an especially supportive environment of innovation and discovery for technology firms. A key component of OTRP's commitment to superior infrastructure and support services is its connection to the National LambdaRail, permitting accommodation of data-intensive research.

OTRP is a unique partnership of the City of Stillwater, Meridian Technology Center, and Oklahoma State University, created to build a knowledge community based on emerging technology.

For more information, go to www.oktechpark.com.

