

# **Exhibit Profiles**

**HISTORICALLY BLACK COLLEGES & UNIVERSITIES  
AND  
MINORITY INSTITUTIONS**

# US Army HBCU/MI Conference

December 13-15, 2004

## Exhibitor List

### **Air Force Office of Scientific Research**

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### **Jackson State University**

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### **Department of Army Office of Equal Employment Opportunity and Civil Rights**

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### **Morgan State University**

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### **North Carolina A&T State University**

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# US Army HBCU/MI Conference

December 13-15, 2004

## Exhibitor List

### **Southern University and A & M College**

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### **University of Texas-Pan American**

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### **Southern University at New Orleans**

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### **Stewart & Stevenson Tactical Vehicle Systems LP**

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### **Tennessee State University**

Dr. Marcus Shute  
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### **Tuskegee University**

Dr. Shaik Jeelani  
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### **University of New Mexico**

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# ALABAMA A&M UNIVERSITY

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Dr. Arthur J. Bond  
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**Type of School:** Public, 4-year  
**Army ROTC:** Yes  
**Degrees Offered:** Bachelor's, Master's and Doctoral  
**Degree Programs:** Science, Technology, Engineering and Math  
**Majors:** Accounting; biology/biological sciences; chemistry; civil engineering, computer and information science; electrical/electronics and communications engineering; mathematics; industrial; mechanical engineering; and physics

Alabama A&M University was founded in 1875. For more than 120 years, Alabama A&M University has endeavored to deliver a quality education to those underrepresented populations. While the University has never been exclusionary, it is seeking greater diversity at the undergraduate level. Anchored in a setting conducive to scholastic achievement, Alabama A&M University offers its students a wide variety of degree programs ranging from the associate to the Ph.D. degree.

Alabama A&M University operates under the threefold mission of teaching, research, and public service (extension). Research performed at the University facilitates the education of its students, the acquisition of new and important technology and information, and the enhancement of faculty skills. As a result of these efforts, Alabama A&M University has achieved considerable prominence within the State of Alabama and throughout the United States.

Research and Development serves as the major division responsible for the administration, promotion and coordination of the University's program for research and institutional advancement. The Office implements the established priorities, goals and policies as defined in the University's long-range strategic plan and maintains oversight responsibilities for the orientation of the University's extramural and intramural research programs and related incentives plans.

The Office of Research and Development also oversees the administrative units necessary for effective public relations and institutional image enhancement [Development and Alumni Affairs, Information and Public Relations, and Telecommunications], and is firmly committed to advancing these important functions for the betterment of Alabama A&M University.

# DELAWARE STATE UNIVERSITY

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**Type of School:** Public, 4-year

**Army ROTC:** No

**Degrees Offered:** Bachelor's, Masters, and Doctoral

**Degree Programs:** Science, Technology, Engineering and Math

**Majors:** Business, Administration, Education, English and Mass Communications. The research center consists of faculty of Mathematics, Computer Science, Electrical Engineering, and Biotechnology, research associates, visiting professors, an administrative assistant, and Ph.D. students.

Delaware State University was founded in 1891. While recognizing its historical heritage, the University serves a diverse student population with a broad range of programs in instruction, service, and research so that its graduates will become competent, productive, and contributing citizens.

Delaware State University Applied Mathematics Research Center (AMRC) is initially funded by the Department of Defense (DoD) in 2003. AMRC is designed to create a research environment where multidisciplinary groups work together to solve applied mathematics problems in military and other areas.

The major goals are: 1) to establish a permanent research base at Delaware State University which produces new knowledge and quality, publishable, peer-reviewed research relevant to DoD research goals; 2) to enhance participation and substantial involvement of minority graduate and undergraduate students and faculty in sciences and mathematics research; 3) to provide additional training in mathematics and sciences to minority female high school students by involving them a summer program (GEMS), and therefore to prepare more minority students (especially women) in sciences and mathematics; 4) to foster long-term research collaboration among scientists with Army Research Laboratories (ARL), and other national government and academic institutions; and 5) to ensure long term sufficient research funding.

With the support of DoD, we created an Interdisciplinary Applied Mathematics and Mathematical Physics Ph.D. program (the first Ph.D. program at Delaware State University). Every summer, we offer a summer research workshop for faculty members and graduate students from HBCU/MIs, and a GEMS program for high school students. We do collaborated research with ARLs and local companies. We have published over 80 research papers in the following areas. Ground Penetrating Radar Imaging, The NURBS methods of Computer geometric design in automatic representing 3D objects, Image Registration, Signal Processing in Data Mining, Space-time Coding, Video Surveillance and Bioinformatics. *Other Research Areas:* Inverse Ill-Posed Problems, Numerical Analysis, Partial Differential Equations, Integral Equations, Wavelets and Image Analysis, Scientific Computation, and Mathematical Physics.

# FLORIDA INTERNATIONAL UNIVERSITY

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**Type of School:** Public, 4 Year

**Army ROTC:** Yes

**Degrees Offered:** Baccalaureate, Master's and Doctoral degree

**Majors:** Architecture, Arts & Sciences, Business Administration, Education, Engineering, Health and Urban Affairs, Hospitality and Tourism Management, Journalism & Mass Communication and Law

Florida International University - Miami's public research university - is one of America's most dynamic institutions of higher learning. Since opening in 1972, FIU has achieved many benchmarks of excellence that have taken other universities more than a century to reach. The University has a nationally renowned faculty known for their outstanding teaching and cutting-edge research; students from throughout the U.S. and more than 130 foreign countries; and its alumni have risen to prominence in every field and are a testament to the University's academic excellence.

FIU has 34,000 students, 1,000 full-time faculty, and 105,000 alumni, making it the largest university in South Florida and placing it among the nation's 30 largest colleges and universities. The University has two campuses -- University Park in western Miami-Dade County and the Biscayne Bay Campus in northeast Miami-Dade County -- and an educational site that serves nearby Broward County.

The Mechanical & Materials Engineering Department at Florida International University (FIU) offers a curriculum which is designed to give the student a thorough understanding of the basic laws of science and to simultaneously stimulate and develop creative thinking, a professional attitude, economic judgment and environmental consciousness. The aim is to develop the student's potential to the fullest, to prepare the student for superior performance as a mechanical engineer, and to provide the student with the fundamental principles necessary for pursuing advanced study in the diverse fields of engineering, science and business.

The creativity and research of the mechanical engineering profession impact health, exploration, manufacturing and high technology industries throughout the world. Mechanical engineering is, and will be, critical in areas as diverse as space exploration, environmental control, defense, transportation and bioengineering. The Department of Mechanical and Materials Engineering (MME) offers BS, MS, and Ph.D. degrees in Mechanical Engineering and an MS in Materials Science and Engineering. Its esteemed faculty has earned national and international recognition and serves on many editorial boards. One of the MME faculty has established, and directs the largest research center at FIU, the Hemispheric Center for Environmental Technology (HCET). The MME faculty and students work closely with the HCET, The Department of Biomedical Engineering, The Center for the Study of Matter under Extreme Conditions (CESMEC) and The Engineering Manufacturing Center (EMC). The MME Department is the home of the new Advanced Materials Engineering Research Institute (AMERI) specializing in nano-technology. A new parallel computing and visualization facility in MME will be the home for the future inter-departmental Multidisciplinary Analysis, Inverse Design, Robust Optimization and Control (MAIDROC) Center. AMERI and MAIDROC will emphasize interdisciplinary integration of fields ranging from physics and chemistry, to metallurgy.

# JACKSON STATE UNIVERSITY

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Dr. Abdul K. Mohamed  
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**Type of School:** Public, 4-year  
**Army ROTC:** Yes  
**Degrees Offered:** Bachelor's, Master's and Doctoral  
**Degree Programs:** Science, Technology, Engineering and Math  
**Majors:** Biology/biological sciences; chemistry; civil engineering; computer and information sciences; environmental engineering, geological engineering, computer engineering; electrical/electronic and communications engineering; engineering technology; mathematics; and physics.

Jackson State University was founded in 1877. It is part of the Mississippi Institutions of Higher Learning. Facilities: New school of engineering building scheduled for completion in 2005; newly equipped temporary laboratories for all undergraduate classes; modern high-performance computing facilities.

The College of Science, Engineering and Technology (CSET) comprises of 2 schools: (1) School of Engineering, and (2) School of Science and Technology. The school has well reputed Computer Science Masters' program and the new Master of Science programs in Engineering Science transferred from the University of Mississippi (Jackson Engineering Graduate Program, JEGP) to Jackson State University. The JEGP graduate course offerings being transferred are concentrated in the emphasis areas of Environmental Engineering, Geological Engineering / Geology, Computer Engineering / Telecommunications, and Electrical Engineering.

The School of Science and Technology is a relatively new organizational development resulting from a merger of the School of Industrial and Technical Studies and the Division of Natural Sciences, previously in the School of Liberal Studies. This reorganization was authorized for the purpose of consolidating the scientific and technical resources of the University into an efficiently focused endeavor capable of meeting the demands of the new technology.

The departments comprising the School of Science and Technology are: (1) Department of Biology, (2) Department of Chemistry, (3) Department of Mathematics, (4) Department of Physics, Atmospheric Sciences and General Science, and (5) Department of Technology. The school also offers graduate programs in various areas leading to M.S., M.S.T., and Ph.D. degrees.

Active research programs in all departments are consistently maintained. The School of Science and Technology is also actively involved in a number of cooperative external programs with national and international institutions designed to enhance student and faculty development. The cooperative programs serve to broaden faculty and student exposure as well as give national and international visibility to Jackson State University.

# MORGAN STATE UNIVERSITY

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Dr. Eugene M. DeLoatch  
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**Type of School:** Public, 4-year

**Army ROTC:** Yes

**Degrees Offered:** Bachelor's, Master's and Doctoral

**Degree Programs:** Science, Technology, Engineering and Math

**Majors:** Biology/biological sciences; chemistry; civil engineering; computer science; electrical/electronic and communications engineering; engineering; engineering physics; industrial engineering; mathematics; and physics.

Morgan State University was founded in 1867. Facilities: Two-building, 75,000-sq. ft. complex with 20 instructional labs; 17 research labs; library; 300-seat lecture hall; student lounge; 10 specialized research centers, including the Center for Advanced Microwave Research and Applications; high-speed connectivity to the desktop; wireless-accessible; access to on-campus supercomputer.

Morgan is one of the top five institutions graduating the highest number of African-American Engineers nationwide, is the largest producer of African-American Engineers in the State of Maryland and one of Maryland's leading educators of African-Americans. Morgan produces more African-American scientist and engineers than any other college or university in the State of Maryland.

The Department has been following the philosophy of design across the curriculum for some time. In addition to the strong design experience integrated throughout the required courses, the electives offer students the opportunity to enhance their skills with additional open-ended problem solving. These problems are broad based, incorporating knowledge from specialty areas of communications systems, signal processing, microwave systems, solid state electronics, controls and automation and computer engineering. The computer engineering emphasis is a special component of the electrical engineering program, where the department offers a concentration in this area within its EE program.

The Department of Electrical and Computer Engineering provides its students the opportunity to apply mathematical and physical concepts to engineering problems early in the curriculum, through laboratory and design experiences. The Department has been following the philosophy of design across the curriculum for some time. In addition to the strong design experience integrated throughout the required courses, the electives offer students the opportunity to enhance their skills with additional open-ended problem solving. These problems are broad based, incorporating knowledge from specialty areas of communications systems, signal processing, microwave systems, solid state electronics, controls and automation and computer engineering. The computer engineering emphasis is a special component of the electrical engineering program, where the department offers a concentration in this area within its EE program.

# NORTH CAROLINA A&T STATE UNIVERSITY

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Dr. Joseph Monroe  
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**Type of School:** Public, 4-year  
**Army ROTC:** Yes  
**Degrees Offered:** Bachelor's, Master's and Doctoral  
**Degree Programs:** Science, Technology, Engineering and Math

**Majors:** Applied mathematics; architectural engineering; bioenvironmental; civil engineering; electrical/electronics; industrial engineering; chemical engineering; and mechanical engineering; computer science; biology/ biological sciences; chemistry; communications engineering; engineering physics; mathematics; and physics.

North Carolina A&T State University was founded in 1891. Facilities: Machine shop; metal shop; 100 laboratories for research and instruction. The College of Engineering is one of seven colleges and schools in the University. For many years, the College of Engineering has been the nation's leading producer of African American engineers and also the leading producer of African-American women engineers at the bachelor's level. It is currently the third largest producer of African-American Masters level engineers, after Georgia Tech and Johns Hopkins and the leading producer of African-American doctorates in engineering. Women comprise approximately 30% of the students in the College of Engineering.

The College is ranked 6th in the country in the percentage of degrees awarded to women (39%) and is ranked 37th in the number of engineering degrees awarded to women. Two programs in the College have distinctive features. These include the Architectural Engineering program which is the only one of its kind in the state and only one of thirteen in the country; and the Bio-environmental Engineering program that is the only ABET accredited program of its kind at an HBCU.

The College of Engineering consists of five academic departments that offer eight undergraduate and nine graduate degree programs: Civil (CIEN), Architectural (AREN), Agricultural (AGEN), Environmental Engineering (CAAE), Computer Science (COMP), Electrical & Computer Engineering (ELEN), Industrial & Systems Engineering (INEN), and Mechanical & Chemical Engineering (MCEN).

The Division of Research (DOR) maintains a balanced and diverse portfolio of basic and applied research programs that are effectively integrated with undergraduate and graduate education. Core research clusters include: Materials and Structures, Complex Systems, Computational Engineering and Science, International Trade, Electronics Manufacturing, Waste Management, Entrepreneurship and E-Business and Transportation. Major research sponsors are NASA, the United States Department of Agriculture, Department of Defense, the National Science Foundation and the Department of Transportation.

## SOUTHERN UNIVERSITY and A&M COLLEGE

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Habib Mohamadian  
Dean of Engineering

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**Type of School:** Public, 4-year

**Army ROTC:** Yes

**Degrees Offered:** Science, Technology, Engineering and Math

**Degree Programs:** Nursing, Business Management, Biology, Computer Science, Engineering and Psychology. Program offerings in the college consist of four-year programs in civil engineering, electrical engineering, and mechanical engineering leading to a Bachelor of Science degree. In addition, a four-year program is offered in electronics engineering technology leading to a Bachelor of Science degree. Through the Department of Chemistry, students may pursue a dual degree in chemistry and chemical engineering in collaboration with Louisiana State University.

Southern University and A&M College was founded in 1880 and is part of the Southern University System. Southern University and A&M College is a leader in unique academic programs, innovative research and community service.

The College of Engineering provides students with technological skills and opportunities that stimulate professional, educational, and personal growth. The college provides this growth through a diverse faculty and staff that is committed to teaching, research, and service. Students are encouraged to participate in laboratory research and cooperative education programs that enhance career confidence. They also are encouraged to participate in ongoing research with faculty members that contribute to engineering innovations. The college maintains an atmosphere that enhances the student's ability to achieve the optimum learning experience.

In addition to program offerings, the college is the home of the U.S. Department of Energy Samuel P. Massie Chair of Excellence Program in Environmental Engineering and the National Aeronautic Space Administration (NASA) Aerospace Research and Education Program (AREP). These programs have contributed to improving the college's infrastructure by establishing state-of-the-art environmental and aerodynamics laboratories.

The civil, electrical, and mechanical engineering programs are accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET).

# SOUTHERN UNIVERSITY at NEW ORLEANS

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**Type of School:** Public, 4-year

**Army ROTC:** No

**Degrees Offered:** Associate, Bachelor's and Master's

**Degree Programs:** Science, Technology, Engineering and Math

**Majors:** Each year, approximately 450 undergraduate and 70 graduate degrees are awarded. The University offers approximately 400 different courses and services approximately 4,000 students each semester. A range of basic degree programs in the liberal arts and sciences, business, education, and the technologies, and graduate degree programs in Social Work, Criminal Justice, Computer Information Systems, and Urban Education are among the offerings. The University maintains a faculty of about 270, with 60% of the full-time faculty holding the earned doctorate.

Southern University at New Orleans (SUNO), a senior state institution of higher learning, was founded as a branch unit of Southern University and Agricultural and Mechanical College, Baton Rouge, by Act 28 of the Extraordinary Session of the Louisiana Legislature of September 4, 1956, and began its initial year of operation on a seventeen-acre site located on the perimeter of Pontchartrain Park. With a freshman class of 158 students, one building, and a faculty of fifteen, the first graduation took place in May, 1963 at which time baccalaureate degrees were awarded to fifteen persons. Over the years several events have significantly affected the direction of the institution.

SUNO's present physical plant consists of thirteen buildings located on sixty-one acres, at an acquisition cost of twenty-five and a half million dollars. Additions, including acquisition of the North Campus and renovations to original buildings combine to provide 388,500 square footage of floor space for instructional and support activities at a total cost of thirty-two and a half million dollars. The Multi-purpose, one of the last buildings constructed, houses a 1200-seat auditorium and increased office and classroom space on the campus.

The College of Science is composed of the Departments of Biology, Chemistry, Computer Information Systems, and the Department of Mathematics and Physics. It serves to provide instruction for students planning to acquire degrees in these specific content areas, as well as offering support courses in the above named subjects to satisfy criteria for graduation in other disciplines. The individual departments in the college combine to share the following goals: (1) to enable students, through fulfillment of the University requirements, to more fully understand the nature of the universe and the world around them; (2) to provide areas of concentrated study for students who contemplate careers as professionals in the sciences; and (3) to prepare students for admission to schools of medicine, dentistry, pharmacy, veterinary and engineering, as well as graduate schools in the sciences

# TENNESSEE STATE UNIVERSITY

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**Type of School:** Public, 4-year  
**Army ROTC:** No  
**Degrees Offered:** Associate, Bachelor's, Master's and Doctoral  
**Degree Programs:** Science, Technology, Engineering and Math

**Majors:** TSU is broadly comprehensive at the baccalaureate and master's levels with schools and colleges in agriculture, health sciences, arts and sciences, business, education, engineering, technology and computer science, nursing, public administration, and graduate studies. The University offers doctoral degrees in the biological sciences, engineering, education, public administration, and psychology.

Tennessee State University (TSU), a major urban, comprehensive institution, is an 1890 land grant university and one of the Historically Black Colleges and Universities founded in 1912 as a normal school. This unique combination of characteristics distinguishes it from other academic institutions in the state of Tennessee. TSU is located in Nashville on two campuses; the main campus serves the majority of the traditional students and the Avon Williams campus, located in downtown Nashville, primarily serves the needs of non-traditional students although other educational programs are based on the Williams Campus. TSU is mandated to provide education, research, and public service to a broad clientele within the state of Tennessee, but welcomes students from some 45 states and 50 foreign countries. The resulting campus atmosphere is a fascinating blend of American customs and foreign cultures. Because of its unique history and mission, the University has a compelling obligation to prepare minority students for entry into positions of responsibility in a multicultural society. It has over 400 FTE faculty members with more than 9000 students.

Tennessee State University displays a broad spectrum of sponsored research projects, ranging from basic to applied, and from single PI grants to major team collaborations. TSU has averaged approximately \$40M annually in research and sponsored program awards. It has over 100,000 sq. ft. of floor space designated for scientific and technological research. The first phase (62,000 sq. ft.) of a new, state of the art 92,000 sq. ft. research facility is scheduled to be completed in 2006. Current projects include research in astronomy, computer modeling and simulations, biomedical applications of signal processing, hazardous waste management, neural networks and fuzzy logic, robotics and machine vision, AI/expert systems, computational science, gene expression, plant genetics, animal science, agricultural biotechnology, health research, and nano-science. TSU also conducts research in software engineering, advanced manufacturing and packaging, materials processing, drug-binding to DNA, topology, large scale control and distributed computing systems, astrophysics and astrobiology, forestry, organic synthesis, transportation planning and modeling, and several other fields of study. At Tennessee State, we believe research is essential to excellence in education and enhances the learning experience of our students. In addition, the faculty is involved in scholarly activity in the arts and has a state of the art performing arts center that is an integral part of ensuring a well-rounded educational experience for students at TSU and the community.

Tennessee State University seeks to provide the best environment for study and research through a creative association of faculty and students, as a community of scholars, in expanding the boundaries of science, education, and technology.

# TUSKEGEE UNIVERSITY

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**Type of School:** Private, 4-year

**Army ROTC:** Yes

**Degrees Offered:** Bachelor's, Master's and Doctoral

**Degree Programs:** Science, Technology, Engineering and Math

**Majors:** Aeronautical and astronautically engineering, biology/biological sciences, chemical engineering, chemistry; electrical/electronics and communications engineering; engineering technology; mathematics; mechanical engineering; and physics.

Tuskegee was founded in 1881. Facilities: Programs housed in six independent buildings and recently constructed Solar House; research facilities in such fields as electronics, control systems, high-performance computation, mechatronics, power systems, fluid mechanics, combustion, heat transfer, solid mechanics, materials, polymers, sources of energy, and environmental engineering; 17 instructional and research laboratories; main library and two branch libraries.

One of the College of Engineering, Architecture and Physical Sciences' (CEAPS) major objectives is the preparation of individuals for a full, satisfying and competitive career in an era when society demands comprehensive solutions to environmental, ethical and technological problems. The College provides each student with an experience in computer languages, probability and statistics, contemporary issues, including ethics, and open-ended design. In the Engineering programs, professionals are prepared with the ability to apply technology for the benefit of society. The Architecture and Construction Science and Management programs prepare professionals who are capable of playing an active role in rebuilding our cities and towns so they may become truly meaningful places for all people to work and live. The Physics department focuses on the various aspects of modern physics as well as experimentation to prepare physicists to serve the community at large.

As a corollary to the instructional and service elements of its mission, the research goals of the College are designed to preserve, refine, and develop further the bodies of knowledge already discovered for dissemination and sharing; discover new knowledge for the continued growth of individuals and society; seek out new applications of knowledge to help resolve the problems and desires of modern society and enrich it; and to be able to practice specific professional disciplinary areas in the marketplace.

Instructional and research laboratories in the College include: Computer-Aided Design, Computer Applications, High Performance Computation, Software Engineering, Artificial Intelligence, Flight Vehicle Design, Fluid Mechanics and Heat Transfer, Power Systems, Materials and Stress Analysis, Process Control and Unit Operations, Propulsion, VLSI Design and Simulation, Microprocessor, Digital Signal Processing, Microelectronic Fabrication, Solid State Physics and Wind Tunnel Laboratories.

# UNIVERSITY OF NEW MEXICO

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**Type of School:** Public, 4 Year

**Army ROTC:** Yes

**Degrees Offered:** Baccalaureate, Master's and Doctoral degree

**Majors:** Management, Architecture and Planning, Arts & Sciences, Education, Engineering, Arts, Law, Nursing, Pharmacy, Dental Hygiene, Medicine

Founded in 1889, the University of New Mexico (UNM) now occupies 600 acres along old Route 66 in the heart of Albuquerque, a city of half a million people. UNM's main and branch campuses offer 88 certificates, 97 associate degrees, 145 bachelor's degrees, 83 master's degrees, 42 doctorate degrees, three professional degrees, 11 post-master's certificates and eight education specialists. Several UNM programs consistently rank among the best nationwide. In 2002 U.S. News & World Report three programs in the UNM School of Medicine cracked the top 10. For the eighth consecutive year, the school's rural medicine program held the number two spot in the nation. UNM's primary-care curriculum ranked fourth, UNM's family medicine program ranked fifth place. The UNM clinical law training program is in the top 10. The law school was recognized with the most racially diverse student bodies. UNM's law school remains among the top 100 law schools in the nation. UNM's School of Engineering was among the top 50 engineering schools in the country. In addition, UNM's anthropology, biology, flamenco dance and Latin American and Western history programs have respected national reputations.

The University of New Mexico School of Engineering is included in an academic alliance that will contract to manage the Idaho National Laboratory for 10 years for the U.S. Department of Energy. A new Centennial Engineering Center has been designed. The 139,500 square foot facility will house classrooms, laboratories, student and faculty spaces and School of Engineering administrative offices. A new building will facilitate ongoing research, including methods of community water arsenic removal, Rio Grande restoration and cancer research. Phase one of the new center will house Civil Engineering. The CEC will be a "living lab" and a "smart building," which will monitor the temperature, as well as stress and strain on the facility. It features wireless classrooms with Internet conferencing facilities and six labs: environmental engineering, soil mechanics, structural mechanics, hydraulics, asphalt and concrete testing. Labs will be state-of-the-art, with high bays for big experiments, and high-pressure systems and incubators for testing materials.

UNM's growth can be witnessed in the upward trajectory of its research funding, as contract and grant awards for fiscal year 2003 top \$255.7 million, a growth of more than \$10 million over fiscal year 2002. Our students, researchers, and educators come from diverse areas of interest and expertise, and they come together with enthusiasm and commitment to create a vibrant academic climate.

# UNIVERSITY OF TEXAS – PAN AMERICAN

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**Type of School:** Public, 4 Year

**Army ROTC:** Yes

**Degrees Offered:** Associates, Baccalaureate and Master's

**Majors:** Arts & Humanities. Business Administration, Education, Health Sciences & Human Services, Science & Engineering and Social & Behavioral Sciences

The College of Science and Engineering consists of the departments Biology, Chemistry, Computer Science, Electrical Engineering, Manufacturing Engineering, Mechanical Engineering, Mathematics and Physics and Geology. In the last ten years over \$70 million has been allocated to buildings and equipment for the departments in the College.

The Departments of Biology and Chemistry are both housed in the Science Building, which has well-equipped lecture halls and numerous laboratories for teaching and research. Equipment available to students include electron microscopes, environmental chambers suitable a high field nuclear magnetic resonance Spectrometer, computer systems used in remote sensing and Geographic Information Systems (GIS) research, and a computer lab.

Many have called UT Pan American's new Engineering Building the best-equipped undergraduate facility in Texas. It has six computer laboratories with 243 Pentium computers and 32 Sun workstations and a high-bay laboratory area for large manufacturing and mechanical engineering equipment. On the roof is a solar energy laboratory for senior design projects and class laboratory use. The Engineering Building houses three Engineering Departments and the Department of Computer Science.