

## PALMDALE INSTITUTE OF TECHNOLOGY AND THE AERO INSTITUTE

The partnership of the Palmdale Institute of Technology and the AERO Institute provides the opportunity for local government to participate and facilitate the development and growth of an industry-driven educational institution with a focus on science and engineering. To better serve the needs of the local aerospace and technology industry, the City of Palmdale, through "Palmdale Tech," is providing facilities and support for the AERO Institute, the university partners and the industry.



The goal is to bring a world class education, research and development institution for the study of aerospace and aerospace design to Southern California. This includes classroom space, lab space, offices and digital learning facilities in one convenient location.

The City is proud to be the first west coast location for Purdue University College of Engineering; and to provide a Palmdale location for California State Polytechnic University, Pomona and Embry-Riddle Aeronautical University. These dynamic partnerships are combining resources to help working professionals earn advanced graduate degrees in engineering and business and enhance the professional workforce.

In addition, this unique educational partnership will help our nation meet its goals in training and educating new engineers, maintaining our nation's status as a leader in science and technology; and to ensure our safety with the most advanced and highly trained aerospace workforce in the world.

Palmdale is pleased to partner with NASA Dryden and the aerospace community to provide a distinctive program such as the AERO Institute in support and advancement of aerospace technology for today and tomorrow.



For more information or to inquire into class registration, class schedules or for general information on partnering, call or visit:



**AERO**Institute  
AEROSPACE EDUCATION RESEARCH OPERATIONS

38256 Sierra Highway  
Palmdale, CA 93550  
661-276-5807

[www.aeroinstitute.org](http://www.aeroinstitute.org)



**CITY OF PALMDALE**

38300 Sierra Highway  
Palmdale, CA 93550  
661-267-5100

[www.cityofpalmdale.org](http://www.cityofpalmdale.org)



# THE AERO INSTITUTE



Bringing Advanced  
Educational Opportunities  
to Palmdale and all  
of Southern California



**AERO**Institute  
AEROSPACE EDUCATION RESEARCH OPERATIONS



**CITY OF PALMDALE**





## MEETING AMERICA'S NEEDS FOR THE FUTURE

The AERO Institute, located in a state-of-the-art facility in the Palmdale Civic Center, is a unique collaboration with the NASA Dryden Flight Research Center, the California Space Grant Foundation and the City of Palmdale. The strategic partnership provides leadership as the integrator and facilitator of joint projects among government, academia and industry.

The AERO Institute was founded to address education at every stage of the academic pipeline and to serve as a technology demonstrator to both the onsite and the distance education community with leading edge technology infrastructure in telecommunications, wireless access and digital broadcasting. It establishes an innovative educational initiative to cultivate, incubate and stimulate advances in engineering and science through education and research in a joint setting with industry.

The proximity of industry and academia also lends itself to collaborations in business development through the development of a highly qualified workforce in support of aerospace technology.

### Goals of the AERO Institute include the following:

- Workforce development for the future
- Provide comprehensive technical, undergraduate and graduate education locally
- Conduct leading edge aerospace research
- Incubate, stimulate and commercialize new intellectual property
- Promote aerospace science and engineering
- Build industry partnerships

## CITY OF PALMDALE VISION FOR HIGHER LEARNING

The City of Palmdale is home to some of the largest aerospace firms in the world. It is located in the Antelope Valley and is the gateway to what is commonly known as "The Aerospace Valley."

Palmdale is also home to the largest U.S. Air Force production plant, Air Force Plant 42, and is in close proximity to Edwards Air Force Base, the nation's premiere test flight facility, and the Air Force Flight Test Center (AFFTC). The Aerospace Valley is also home to China Lakes Naval Weapons Station and the Mojave Space Launch Site.



City leaders realized the need for higher education to support this critical industry. The need for highly trained and educated employees is a constant challenge in this age of technology. The proximity of premiere university partners to industry provides the opportunity for industry and education to work in tandem to develop the most advanced and qualified employees in the field of aerospace technology.

The Institute leverages the nation's investment in NASA into classrooms across America. NASA Dryden Flight Research Center's Office of Academic Investment is located at the Institute. It also includes the Education Resource Center, which offers a vast selection of K-12 educational materials to educators and learning centers.

The Institute also offers college-credit courses in aerospace technology from public and private colleges and universities from around the country, including the prestigious Purdue University College of Engineering, California State Polytechnic University, Pomona and Embry-Riddle Aeronautical University. This unique and innovative approach to advanced level education offers a broad spectrum of opportunities for student interaction with industry partners, increased cooperation with the industry and the university faculty, and collaboration in the area of research and development in a setting for meaningful partnership.

The AERO Institute provides students and faculty access to the leading contractors in the industry including the Boeing Company, Northrup Grumman and the headquarters of Lockheed Martin Skunkworks. These companies have been responsible for the development of the country's most advanced aeronautical achievements, including the F-117 Nighthawk Stealth Fighter, the B-2 Phantom Stealth bomber and the Space Shuttle; all designed, developed and built in Palmdale.

## HOME OF AEROSPACE INGENUITY

## PARTNERSHIPS IN EDUCATION

**Purdue University** offers graduate-level courses for practicing engineers at the AERO Institute. The flexible learning program includes courses from Purdue's mechanical and aeronautics and astronautics engineering programs, as well as other programs. Purdue's College of Engineering Distance Program is one of the leading providers of university-based distance education in the United States. It is highly respected with seven departments consistently ranked in the top 10 by *U.S. News & World Report* magazine. One of the top benefits to the joint venture with the AERO Institute is that individuals working and living in California can obtain a degree from Purdue University locally. Degrees offered include Electrical, Computer, Industrial and Mechanical Engineering. Through the satellite campus in Palmdale, the first in the nation, students can attend classes, work with other students, meet professors and participate in a state-of-the-art classroom environment.



**California State Polytechnic University, Pomona** currently offers students an opportunity to earn a Master's Degree in Business Administration. Cal Poly Pomona is ranked fourth for public universities in the Western Region, according to the 2006 edition of the *U.S. News & World Report, America's Best Colleges*. The Professional Master's of Business Administration Program (PMBA) is designed for the working professional with evening and weekend classes, and the entire program can be completed in Palmdale. Classes are held on-site at the AERO Institute.

**Embry-Riddle Aeronautical University** is the world's largest and



fully accredited university specializing in aviation and aerospace and is ranked number one by *U.S. News & World Report* for schools where the highest degree is a Master's. Embry Riddle is offering a Pre-Engineering Certificate for working adults interested in (1) gaining a solid engineering foundation for job applications; (2) pursuing an undergraduate engineering degree; (3) qualifying for graduate engineering programs that require a sound engineering foundation. This entry-level engineering certificate was specifically designed, in accordance with engineering industry certification standards, as a foundation for a wide variety of undergraduate engineering degrees.