Program-Title	University Nanosatellite Program (UNP)	STEM Inventory	Entry# 115
Org-Type	Professional Association-based|Non-Profit-based|Government-based		
Lead	AFRL/VS, AFOSR, AIAA	PoC	N/A
PoC-Phone	N/A	PoC-Email	nanosat@kirtland.af.mil
Address			
URL			
Service-Region	Nationwide		
Type	Student Program		
Subjects	Space|Engineering|Technology		
Level	Undergraduate		
Other-Objectives	The main focus of this program is small satellite research and development.		
Served-per-Year		Demographics	
Content	The Nanosat Program has two distinct stages. The first stage is a Nanosat design and protoflight build phase, which lasts approximately two years and culminates in the AIAA Student Satellite Flight Competition Review (FCR). All universities are partially funded by the AFR and construct a protoflight Nanosat while participating in various design reviews and program-sponsored hands-on activities and workshops throughout the two-year period. All universities are evaluated based on several criteria, including Student Participation/Education, Technical Relevance/Excellence, and Flyability (meaning that the hardware adheres to strict quality assurance and spaceflight qualification practices). FCR judges are a distinguished panel of government and industry professionals. The second stage of the Program begins after the Nanosat is selected for flight integration and test via the Flight Competition Review at the end of the two year competition period. The university-built flight Nanosat is expected to be flight-ready (standards for spaceflight hardware and associated documentation has been tracked through a rigorous quality and configuration management process) and delivered to AFRL immediately following the FCR. This second phase consists of accelerated integration with a separation system and environmental test of the protoflight Nanosat in the months following FCR, and culminates in a potential launch opportunity.		
Outcomes	The objectives of the program are to educate and train the future workforce through a national student satellite design and fabrication competition and to enable small satellite research and development (R&D), payload development, integration, and flight test.		
Started		Funded-Through	
Length		Cost	
Primary-Funding		Primary-$	
Materials			
Other-Funding			
How-Assessed			
Best-Practice-Why			
Promising-Practice			
Sponsor		Sponsor-Org	
Sponsor-Phone		Sponsor-Email	
Other-Orgs			