

Ak-Chin Indian Community Grant Application Cover Sheet

Name of City/Town/County/Non-Profit: City of Maricopa	
Mayor/Supervisor/Chairman/President: Mayor Christian Price	
Contact Person and Title: Tim Gomez, Interim Grants Administrator (Police)	
Applicant Address (administrative office): 39700 W. Civic Center Plaza	
City: Maricopa	Zip Code: 85138
Applicant Mailing Address (if different):	
City:	Zip Code:
Phone Number: (520)316-6894	Fax Number: (520)316-6888
E-mail Address: Tim.Gomez@Maricopa-AZ.gov	
If Non-Profit, Name of City/Town/County With Which You Will Associate:	
Contact Person:	
City/Town/County Mailing Address:	
City:	Zip Code:
Phone Number:	Fax Number:
E-mail Address:	

JUL 14 2017

Program or Project Name: Electronic Forensics Overtime	
Purpose of Grant (brief statement):	
Maricopa Police Department is seeking funding to pay for overtime costs for training on electronic forensics, including the implementation of the Unmanned Aerial System (UAS) and Electronic Forensics Technology.	
Beginning and Ending Date of Program or Project: 09/11/2017 – 06/30/2018	
Amount Requested: Estimated \$40,000	Total Cost: \$40,000
Geographic Area Served: City of Maricopa	

By the execution of this Grant Application the undersigned agrees that the information contained in this Application is true, to the best of the Applicant's knowledge. The Applicant shall notify the Community if any information in this Application changes

Signature: _____
 For the Applicant: Date: 7/13/17
 Typed/Printed Name and Title: GREGORY ROSE / CITY MANAGER

For the City/Town County: _____ Date: _____
 (If different than applicant)
 Typed/Printed Name and Title: _____

Purpose of Grant

1.) Describe Proposed Program or Project

The goal of this grant is incorporating advanced investigative techniques via expansion of forensic investigations and the Unmanned Aerial System (UAS) program. The Maricopa Police Department (MPD) is requesting \$39,415 to purchase a forensic investigative software platform for personal computers, upgrade current forensic software for cellular phones, and for overtime funding to train personnel on the usage of the systems. Furthermore, Maricopa Police Department is seeking overtime funding to train employees on the usage of the Unmanned Aerial System (UAS) program. Access to this technology will allow MPD officers and investigators to elevate their abilities regarding forensic investigation. This training will allow MPD increase proficiency, thereby reducing the quantity of man hours required, for forensic investigation with utilization of the UAS.

The goal will be met through the following objectives:

- Acquisition of the computer forensics software program.
- Upgrade for Cellebrite cellular investigation system.
- Training of three (3) investigators within the Criminal Investigation Division on Basic Computer Forensics from the International Association of Computer Investigative Specialists (IACIS).
- Training of six (6) pilots for the Unmanned Aerial System (UAS).

2.) Identify the target population that will be served

The Maricopa Police Department (MPD) is committed to working in partnership with the community to improve the quality of life in the city. The City of Maricopa (incorporated in 2003) is the youngest city in the state of Arizona. Located 20 miles south of the Phoenix-Metropolitan area, Maricopa is one of the most prominent bedroom communities in Arizona. Maricopa owns and maintains 517 miles of roads. The majority of trips are made on 2 highways and a series of section line roads. The primary road within City limits is John Wayne Parkway (SR 347), a 4 lane ADOT maintained road, traversing Maricopa in a north-south alignment.

While the City of Maricopa has dynamically changed in terms of population and landscape, it still maintains the heart and feel of rural Arizona. Due to a surge of development, primarily residential single-family housing, Maricopa's population has grown from 1040 (in 2003) to over 48,000 (in 2010). According Maricopa has a current population of 48,374 according to the Arizona Department of Revenue. This growth has effectively transformed the area from an agricultural area to a suburban city environment. Maricopa's diverse community is comprised of 70.2% Caucasian, 9.7% African Americans, and 20.6%. Of the population, 25.8% represent Hispanic orientation.

This rapid change presented a number of strategic and logistical challenges, which the City addressed admirably. The Maricopa Police Department handles approximately 10,240 officer initiated actions and 18,012 calls generated from citizens on an annual basis. This diverse community is served represented by 66 sworn employees and 20.5 civilian employees. With a per capita officer ratio of 1.36, MPD is one of the leanest agencies in Arizona.

The target population is the City of Maricopa residents who are victimized and expect swift justice. Citizens of Maricopa experienced a violent crime every 4.4 days, and a Part 1 crime occurred every 13 hours. For the first time in four years, Maricopa Police Department is experiencing an increase in reported criminal activity with an estimated 13% increase in both criminal activity. In FY16-17, MPD Victim Assistance Program (VAPS) provided 4,110 services for 818 victims of criminal activity, including 49.63% of the events that were related to

domestic/family violence.

3.) *Describe the Project goals and objectives and plan to meet them*

The goal of this grant is incorporating advanced investigative techniques via expansion of forensic investigations and the Unmanned Aerial System (UAS) program. By incorporating forensic investigations into daily criminal investigations, MPD will be able to increase the timeliness and efficiency of services provided to the residents. The objective of this grant is to provide MPD personnel with the requisite tools needed to deliver efficient and quick justice to the victims of crime. MPD will meet the goal and objective of this grant by supplying agency members with requisite training to excel in forensic investigation as well as upgrade the equipment currently available to department members.

MPD personnel and case investigators are often at the will of County and State resources for their ability to extract digital evidence from electronic devices, and as such have to wait for a backlog of cases those agencies receive from all across the state. This can result in evidence surrendered that could result in a conviction of a dangerous felon. The ability for a local department to process the digital evidence in every case is significant. Nearly every suspect is arrested in possession of a cell phone, tablet or laptop. These devices maintain significant electronic data and a trail to the crime as well as contact information, business transactions and criminal evidence. The extraction of this data will not only help ensure a conviction it will provide evidence of other crimes and bring swift justice for victims of crime. The expanded usage of technology in the commission of the crime is a preeminent issue for law enforcement agencies.

The National Institute of Justice (NIJ) identifies digital evidence forensics as the “burgeoning science” of law enforcement. Due to the proliferation of the usage of computers and cellular devices in the commission of criminal activity, the adoption of advanced digital forensics investigation abilities is a prominent goal for law enforcement agencies. Digital information that is stored and/or transmitted can be an integral component to the successful prosecution of a criminal act. However, many law enforcement agencies do not have a digital forensics unit due to the cost of incorporating the unit for three specific cost prohibitive areas: requisition of the equipment, cost of training personnel and cost of overtime incurred during forensic investigations.

MPD is seeking funding for a computer forensics investigation system. The system would allow MPD personnel to investigate crimes against persons by utilizing electronic data. Furthermore, MPD is seeking funding to train three (3) Criminal Investigation Division (CID) detectives in Basic Computer Forensics Examiner Training through International Association of Computer Investigative Specialists (IACIS).

As part of an effort to increase the department’s usage of technological innovations, MPD purchased a dedicated work station will support the uploading of volumes of digital forensic files. MPD also purchased Cellebrite Mobile Synchronization software, which specializes in data extraction, transfer and analysis for cellular and mobile devices. Initial access to this software has allowed for the Criminal Investigations Division to have basic forensic investigation for cellular phones. However, due to the ongoing cost of the program and continued reliance on software updates, these software program has been recently declared inoperable due to it being out of date.

MPD is seeking funding for 140 hours of overtime at \$57.25 per hour. This overtime funding will provide the significant resources required to ensure seven (7) Criminal Investigation Division (CID) detectives are trained on the update to Cellebrite and a new computer forensic investigation software program.

Law enforcement agencies began utilizing unmanned aerial systems in the early 2010s with moderate success and often on prolific cases. Since the advent and enhancement of the technology, an increased number of agencies incorporated this technology into their department as a way to enhance the efficiency of the agency. Approximately 167 police and fire departments purchased unmanned aerial vehicles in the United States in 2016, which is double the number that were purchased in 2015.

In July 2017, MPD implemented the Aerial Support Unit (ASU), which incorporates the emergent technology of Unmanned Aerial Systems (UAS). UAS technology are being adopted across the nation for law enforcement purposes, including as a tool for searching for missing persons, officer safety enhancement, scene security, accident reconstruction, and other life preserving methods. The systems provide agencies an aerial viewpoint at a fraction of the cost was traditionally associated. For smaller municipalities, the implementation of a UAS unit may still be cost prohibitive due to both the cost of the system and training personnel on the functionality of the system that is still new to both the private and public sector.

Upon initiation of the program, MPD completed the requisition of a DJI Matrice 600 – Hexacopter drone at a price of \$21,438.00. However, the acquisition of a technology is not indicative the program and software will be successful. The success of the program will be dependent upon sufficient training of the team members. The Maricopa Police Department ASU is operated will by a ten (10) member team consisting of both civilian and sworn personnel. In total, the ASU will be staffed by six (6) pilots, two (2) sensor operators, and two (2) visual observers. Pilots will be required to complete the FAA Part 107 Remote Pilot Certificate and completion of 80% on a department written examination.

MPD is seeking grant funding for 140 hours of overtime at \$57.25 per hour. This overtime funding will provide the significant resources required to ensure six (6) pilots have sufficient training to operate the UAS at an advanced level.

4.) *Provide a timetable for implementation of project*

September 11, 2017	Maricopa Police Department notified of grant award status
September 30, 2017	Solicitation of computer forensics training sent out to department personnel
October 2, 2017	Six (6) pilots chosen for UAS program to begin 80-hour flight training
October 9, 2017	Three (3) department employees chosen for forensic training
October 13, 2017	Six (6) pilots complete UAS 80-hour flight training
November 1, 2017	Update for Cellebrite purchased
November 30, 2017	Seven (7) Criminal Investigation Division detectives retrained on Cellebrite updates
April 23, 2018	Three (3) department employees begin 80-hour training through the International Association of Computer Investigative Specialists (IACIS)
May 4, 2018	Three (3) department employees receive 80-hour IACIS training certificate

Resources

- 1.) *Identify current funding sources for the project and characterize each funding source listed*
There are no current alternative funding sources for the project.

- 2.) *Identify other organizations or partners that are participating in or contributing to the project.*
None at this time.
- 3.) *Define the Project as a new or continuing project.*
This is a new project.
- 4.) *Any other requested funding from another Arizona tribe.*
 - a. Unsuccessful requests made within the last eighteen (18) months.
 - *Pending* - 2017 Tohono O'odham Nation – Critical Incident Stress Management (CISM) Training - \$7,950
 - *Pending* - 2017 Fort McDowell Yavapai Nation – Police Motorcycle - \$30,880.07
 - *Pending* - 2017 Gila River Indian Community – Funding for Family Advocacy Center - \$246,045
 - b. Funded requests made in the last five (5) years.
 - 2016 Gila River Indian Community \$17,500
 - 2016 Gila River Indian Community \$40,000
 - 2014 Gila River Indian Community \$500,000
 - 2013 Gila River Indian Community \$37,644
 - 2012 Gila River Indian Community \$300,000
 - 2012 Gila River Indian Community \$22,680

Reports

The Maricopa Police Department utilizes Spillman as its Records Management System (RMS). Spillman maintains data integrity and eliminates accidental duplicate entries by organizing information into master tables that are shared throughout the system modules. The system's core is a single-source database so users only need to enter information once.

The City of Maricopa utilizes Munis financial solutions from Tyler Technologies. Munis is a robust enterprise resource planning solution that provides a wide range of accounting and financial auditing services. MPD will utilize Munis to ensure that grant funding is kept in accordance with grant guidelines as well as state mandates.

At the end of the grant cycle, the City of Maricopa Police Department will generate an annual report detailing the outcomes of the training acquired for officers as well as the number of cases that the technology has assisted with. Three criminal investigators will receive national certification as Basic Forensics Examiners.

Budget

Proposed Budget Expense	Amount Paid for by MPD	Amount Requested from Ak-Chin
DJI Matrice 600 – Hexacopter (Drone)	\$21,438.00	\$0
Work Station w/ software and hardware	\$2,200	\$0
Cellebrite Laptop	\$2,774	\$0
Cellebrite Software	\$10,000	\$0
Three (3) Criminal Investigators receiving Basic Computer Forensics Examiner Training through International Association of Computer Investigative Specialists (IACIS)	\$0	3x \$2,795 = \$8,385
Purchase of robust computer forensic examination software and upgrade to Cellebrite system	\$0	\$15,000
140 hours overtime for seven (7) training on forensic investigation	\$0	140 x \$57.25(per hour) = \$8,015
140 hours overtime for training of six (6) pilots for the Unmanned Aerial System (UAS).	\$0	140 x \$57.25(per hour) = \$8,015
<i>Total</i>	\$36,412	\$39,415

Additional Information

None at this time.