

2019 EDWARD BYRNE MEMORIAL JUSTICE ASSISTANCE GRANT

APPLICATION #BJA-2019-15141

\$42,991.20 net

AGENCY: Lauderhill Police

AGENCY CONTACT PERSON: GG Gothoskar

PROJECT TITLE: Cellebrite Solutions and Unmanned Aircraft System

GOALS

1. To take measures to provide the latest available technology, and continuous training to its police officers to enable them to do their job effectively providing safety and security to the residents and visitors of the City, while also ensuring the safety of the police officers as they do their duty.
2. To purchase Cellebrite software and its components, that is the cutting-edge technology for data extraction from cellular devices, in order to gather crime evidence using the funds provided by the 2019 JAG grant.
3. To purchase Unmanned Aircraft System drones using the funds provided by the 2019 JAG grant to provide an aerial view of an ongoing situation.

OBJECTIVES

The two pronged objectives of the Lauderhill Police Department in using the 2019 JAG Grant funds to purchase the latest technology and provide training to its users are:

1. To improve the efficiency of the police investigators by providing the latest technology in cell phone data extraction. The purchase of all components of the Cellebrite technology will provide our investigators with an in-house analytical program that will help sort, organize, search, and make connections

between extracted data. The hands-on training component will enable users to effectively utilize all the features and components of this powerful tool to generate a report to quickly establish a timeline between various data such as GPS locations, text messages, pictures, video logs, WIFI hotspots, contact lists and call logs. Moreover, the software can quickly generate accurate reports as evidence to be presented in court, and eliminates human error such as certain data being overlooked.

2. To bolster the safety and security of the residents of the City of Lauderdale and its police officers; to increase accuracy in mapping a crime scene or a traffic accident, and keep officers and personnel safe as they process the accident scene, by purchasing Unmanned Aircraft System drones. The drones will also assist in providing real time data from an aerial overview of a situation as it unfolds. It will assist in keeping the residents and visitors safe in certain areas as they go about their daily lives, including participating in large gatherings, fairs, festivals and events. It will also assist in documenting traffic homicides safely and provide aerial pictures and reduce the delays in processing crime or accident scenes. It will assist in search and rescue operations, including the large water bodies and canals in and around the city. It will also keep the police officers of the department safe as they are at the forefront in their duty of ensuring the safety of the residents and visitors of the City, preventing crime, and preventing and minimizing the loss of lives.

PROJECT IDENTIFIERS:

The 2019 JAG funds will be used to bolster the Safety and Security of our residents and police officers using the following identifiers:

1. Unmanned Aircraft System (**UAS**) – purchase of Drones
2. Improve efficiency by purchasing newer **computer software and hardware technology.**

3. Offering **training and conferences** to our police officers to be abreast with latest practices and principles, and innovations in technology

Project Narrative

(a) Description of the Issues

One of the main concerns while dealing with a crime scene is quickly being able to collect evidence, secure it and prevent any tampering. However, the advances in technology have made it possible for remote tampering as in wiping off the data from a cell phone. Cell phones are an integral and important part of an individual and holds a detailed roadmap of a person's lifestyle, activities, choices, contacts, and also recent whereabouts. A big piece of the puzzle in crime investigations can be solved with timely analysis of cellphones found on the crime scene or taken from both, suspects and victims.

The City of Lauderhill has a population of about 70,000 and the demographics reveal a predominantly black community from the low socio-economic group. The unemployment rate is at a high 8.9%, and individuals below the poverty level are at 24%. This makes for a very high crime prone environment. The City also has the Swap Shop which is the largest public attraction in S. Florida, and makes for a very swift sale of stolen goods. The City of Lauderhill has the highest per capita homicide rate in the Broward County area. The 2018 UCR data reports a total of 13 homicides, and 551 violent crimes in the city's jurisdiction. Given the demographic, the very high rate of violent crime and homicides in the City, its unique positioning with a few major roadways in the city connecting neighboring cities, and the presence of large water bodies and canals, presents a huge challenge for the police department. The Lauderhill Police department proposes to use the 2019 JAG Grant funds to purchase (i) Cellebrite data extraction technology and (ii) the Unmanned Aircraft System Drones that will greatly improve its efficiency, deal effectively with crime and keep its police officers and residents safe.

The criminal investigations Division has a backlog of cases that are awaiting processing of evidence. Since we don't have the technology and resources to analyze cell phone devices gathered as evidence, we have to rely on police departments from neighboring jurisdictions. This not only causes us delays but also puts additional burden on the other police departments. The significant delays caused in getting assistance from other jurisdictions is causing several problems including delay in being able to capture a suspect or preparing a report with the cellphone data for testifying in court. This problem is greatly affecting our efficiency and productivity in dealing with crime scene investigations and apprehending criminals.

- (i) Cellebrite is a reputable solution for data extraction from cellular devices. This product has been endorsed by a few law enforcement agencies in South Florida who are currently using this solution and have given positive feedback about this product, and also the service provided by Cellebrite. The Lauderhill Police Department is seeking to use a portion of the 2019 JAG grant funds to purchase the Cellebrite software and hardware, and training that will enable in-house extraction of data. This will provide investigators with an analytical program that will help the investigator sort, organize, search, and make connections between extracted data. The generated report quickly establishes a timeline between various data such as GPS locations, text messages, pictures, video logs, WIFI hotspots, contact lists and call logs. The analytical program will be able to process data from multiple extractions occurring on different dates or times. Cellebrite currently has the ability to extract data from most cellular telephones and the ability extends to locked phones and those that contain deleted and encrypted data. The company offers technical services to its customers when dealing with sophisticated devices.

As part of Lauderhill Police Department's "train the trainer" program, we also propose to provide training for two officers, who will then be able to conduct these trainings for other employees as required. This program allows the department to make the best allocation of grant funds. Both the Lauderhill Criminal Investigations Division

and the Lauderhill Special Projects Unit would be able to use this technology allowing for two investigators to actively process and examine extradited data without interrupting the ability to continue to extract new cellular devices. The use of Cellebrite will also require the acquisition of a single standalone laptop dedicated to cellular data extraction. However, the analytical portion of the solution can be run on any computer, and can be shared among investigators who will be able to work at their own workspace using existing hardware. The Lauderhill Police Department proposes to make effective use of the 2019 JAG grant funds to purchase the Cellebrite software and hardware for \$20,950.00 includes the licensing fees for the first year and training for \$7,700, the laptop will cost \$2395, totaling \$31,045.

As mentioned previously, the presence of large waterbodies, and a corridor of major highways running through the city makes it very prone for accidents and fatalities. The demographic of the city has a large juvenile and elderly population, some with problems such as Alzheimer's and Dementia. The police department is routinely enlisted in search and rescue operations. The Swap Shop flea market and Lauderhill Mall attracts huge crowds especially on weekends and holidays, and the city regularly hosts large events such as varied festivals and fairs. Along with the above factors, the recent mass shooting at a school in an adjoining city prompted the command staff strategic decision to purchase drones that would enable an aerial visual of a large area. The drones would be very effective in providing timely information in a situation, allow observation, prove as a deterrent to criminals with its presence, and would be a great resource for officer and citizen safety in life threatening situations.

- (ii) The Unmanned Aircraft System Drones are an essential resource for law enforcement to quickly asses a threatening situation while minimizing the risks to responding police officers, and ensuring a minimal loss of lives. The Lauderhill Police Department is proposing to use the 2019 JAG grant funds to purchase three Unmanned Aircraft System Drones. Drones equipped with optical, zoom, and/or thermal cameras allow law enforcement agents to be more effective. Drone and camera technology allows officials to have a better vantage point during times of chaotic situations where deploying ground personnel is too risky. Aerial vantage

points also allow traffic accident, homicide, or crime scenes to be more fully evaluated and reconstructed. The reliance only on ground assets to respond to emergency events increases threats to the safety of the citizens and responding officers and decreases the efficiency and effectiveness of the emergency response. In response to active shooters, or armed hostage situations the drones can observe threats from a safe vantage point allowing law enforcement on the scene to operate with greater safety.

To summarize, the 2019 JAG grant funds will help improve the efficiency of the police investigators by providing the latest Cellebrite technology in cell phone data extraction, and the Unmanned Aircraft System Drones. The purchase of all components of the Cellebrite technology will provide our investigators with an in-house analytical program that will help sort, organize, search, and make connections between extracted data. The hands-on training component will enable users to effectively utilize all the features and components of this powerful tool to generate a report to quickly establish a timeline between various data such as GPS locations, text messages, pictures, video logs, WIFI hotspots, contact lists and call logs. Moreover, the software generates accurate reports and evidence to be presented in court, and eliminates human error such as missing certain data. The three Drones will be a huge asset in quickly being able to assess a threatening situation, while minimizing the risks to responding police officers, and ensuring a minimal loss of lives. Whether it is a search and rescue operation, flash mobs, crowd control, traffic and vehicle monitoring, a SWAT operation or an active shooter scene, the Drones will greatly benefit the officers of the Lauderhill Police Department to efficiently perform its job of protecting the residents and visitors and also keeping the officers safe.

(b) Project Design and Strategic Implementation

The 2019 JAG grant funds will greatly assist in overcoming the challenges of shortfall in budget allocation to technology. The current deploy-ability stands **only** at 1.7 patrol officers per 1000 people. This current ratio is well under the Staffing recommendation by the Bureau of Justice. Thus the Department's ongoing efforts are geared toward increasing sworn and civilian personnel with resources earmarked. As a result, the department has been unable to augment its technological capability. We have been relying on neighboring police departments for their assistance, using their capabilities. However, this not only results in delays but also puts additional burden on the other agencies.

The Command Staff has engaged with mid-level management and supervisors to determine the need for purchasing the latest in technology that will greatly increase the efficiency and productivity of the department and achieve its overall goal of enhancing the quality of life of the residents and visitors and keeping them safe. The City of Lauderhill has the highest per capita homicide rate in the Broward County area. Our detectives were charged with investigating the 13 homicides in 2018, along with other violent crimes in the city's jurisdiction. This puts a lot of pressure to analyze evidence and gathered data in a timely manner before the suspects have an opportunity to remotely delete data or tamper with evidence on the cell phones. Moreover, time is of essence so that criminals can be convicted and prevented from committing more crimes as an aftermath, often out of revenge. Relying on a neighboring police department for assistance with gathering data from cellphones was no longer a viable solution and this prompted the command staff to request the Cellebrite technology and fill the gaps in the needed resources for criminal justice process.

Certain unique demographic and geographical factors in the City of Lauderhill, and the very serious mass shooting with a high powered automatic weapon that occurred at a school in an adjoining city, prompted the strategic decision of the command staff to purchase drones that would enable an aerial visual of a large area. The recent spate of combative and life threatening situations all across the country, with active shooters using high powered weapons and endangering lives, require a proactive approach at multiple levels to enable and empower police departments and officers.

The Lauderhill Police Department's proposal to utilize the 2019 JAG grant to purchase unmanned drones will enable the agency to bolster the safety and security of our police officers in the eventuality of a lethal situation.

Our community outreach efforts have been well received via our "Coffee with a Cop" series for informal interactions of the residents with police officers and command staff. We propose to have a live demonstration of the drones for the community. This will assist in strengthening our trust based partnership with the community, as well as increasing residents' confidence in the Lauderhill Police Department. The residents feel safe and secure with the knowledge that their Police Department is well-equipped with the latest technology and well capable of dealing with a threatful situation, and ensuring their safety.

(c) Capabilities and Competencies

The Lauderhill Police Department provides services to over 70,000 residents in the City supported by the efforts of 124 sworn officers. The department has a strong chain of command and includes a full-time internal affairs unit, supported by well documented policies and procedures.

The 2019 JAG Grant will be coordinated by Girija “GG” Gothoskar. She will be the point of contact, and her duties will include preparing and submitting the grant application including the budget, and preparing any modifications as required. She is well-qualified with a Master’s degree and has successfully managed several grant programs. She will coordinate with the Asset and Maintenance Coordinator for purchase of approved items, and their inventory. She will work with the Quartermaster to ensure assigning equipment and maintain accurate logs. She will also coordinate with the Finance Department to ensure maintaining invoices and accounts. She will coordinate the required financial reports that will be prepared by the City Finance Department for submission for reimbursement. She will be responsible to prepare the required JAG quarterly progress reports and maintain all documents and back up. She will ensure that she is available to answer any questions posed by the grant audit staff.

This project will be overseen by Major David Hennessy. He will be the supervisor and the first line of review for all information submitted. He will monitor the grant progress and will assign staff as necessary to ensure the success of the program. He will also be responsible to ensure that the Department is meeting established goals, and will ensure that all personnel are completing assignments as required. He will also be responsible for ensuring that the Department is meeting all timeframes.

The Quartermaster Jason Stettner will be charged with the responsibility of managing the care and assignment of the new equipment.

(d) Plan for Collecting the Data Required for this Solicitation's Performance Measures

The Quartermaster Jason Stettner will be charged with the responsibility of taking delivery of shipments, verifying contents, inventory, proper storage and managing the assignment of purchased equipment. The Asset and Maintenance Coordinator will be charged with acquiring a purchase order from the Finance Department of the City of Lauderhill and releasing the order for the approved amount of the equipment and maintain records for reimbursement.

Performance measures will include a timeline starting from the given fiscal year, October 1, of the year that grant funds are released and available for reimbursement. It will include time for our MIS department to work with the vendor for hardware installation, and investigators to receive hands-on training to effectively be able to use all the features of the Cellebrite data extraction technology, and produce reports. The police officers will attend a training course and take a test to be FAA certified. They will then be able to conduct in-house training on operation of the drones, including FAA rules and regulations, hazardous conditions, monitoring adequate backup battery life while using in critical situations. Supervisors will follow up with in-service and roll call training and maintain a log of trained personnel, including any new hires. They will also conduct routine equipment inspections.

Data will be collected at several check points to ensure accuracy, beginning at the time the shipment is received and packages are opened. Inventory records will be created and maintained along with assignment records and photographs verified by the signature of the officer receiving the equipment along with a description and total number of items of the equipment. The quartermaster will also assist with ordering parts and accessories and replacement batteries as required.

Performance measure data will be documented both quantitatively and qualitatively with a subjective description. Case history will be documented by the Criminal Investigations Division for incidents detailed with a date, location, description and a

count of cell phones and their number. The operations team commander will ensure documentation of active shooter, barricade, crowd control and monitoring, search and rescue or other situations where the unmanned drones are deployed. All data will be routinely maintained case by case, per occurrence and compiled for reporting to DOJ on a quarterly basis.

NIBRS

The Lauderhill Police Department along with other cities in Florida are using the Central Square system of reporting until the process of subscribing to the National Incident based reporting system (NIBRS) is completed. Per the strategic plan of the command staff, three percent of the 2019 JAG grant award will be set aside to be used for NIBRS compliance activities. We will document the timeline and maintain the details of use of the funds allocated toward training and technology that will be required once we are fully functional on the NIBRS.

Disclosure of High Risk Status

The Lauderhill Police Department does not have a high-risk status.

Disclosure of Lobbying:

The Lauderhill Police Department does not work with any lobbyists and does not participate in any lobbying activities.

Disclosure of Pending Applications:

The Lauderhill Police Department does not have any pending application submitted in the last twelve months for federally funded assistance that include requests for funding to support the same project being proposed under this solicitation and will cover the identical cost item outlined in the budget narrative and worksheet in the application under this solicitation.

LOCAL GOVERNING BODY REVIEW:

The Lauderhill Police Department is working with the MIS department and the 2019 JAG Edward Byrne JAG Grant funding information will be posted on the Lauderhill City's website so that residents are able to view it and provide their input. The exact date of posting and the direct link to the document will be provided within five business days. Also, due to the timing of the application, the item is in the process of being placed on the agenda for an upcoming City of Lauderhill, City Commission meeting which will be a public forum. Once the Commission meeting is conducted and funding approved the required information will be forwarded to the lead agency.

**2019 EDWARD BYRNE MEMORIAL JUSTICE ASSISTANCE GRANT
BUDGET WORKSHEET: \$42,991.20 net**

CITY: Lauderhill Police

PROJECT NAME: Cellebrite Solutions and Unmanned Aircraft System

A. PERSONNEL \$ _____

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B. FRINGE BENEFITS \$ _____

FICA	7.65% x
SPECIAL RETIREMENT	24.50% x
LIFE INSURANCE	30% x

C. TRAVEL \$ _____

	<u>Computation</u>	<u>Cost</u>

D. EQUIPMENT & TRAINING \$ **\$41,701.46**

<u>Item</u>	<u>Computation</u>	<u>Cost</u>
Cellebrite		
UFED 4PC Pro Series LX	1 X \$14,000	\$14,000.00
F-UFD-04-011	1 X \$6,900	\$06,900.00
B-TRN-02-033	1 X \$7,700	\$07,700.00
Shipping	1 X \$50	\$00,050.00
Laptop	1 X \$2395	\$02,395.00
UAS Drone	3 X \$2,800	\$08,400.00
Technical Training & licensing	1 X \$5056.46	\$02,256.46

E. SUPPLIES \$ _____

<u>Item</u>	<u>Computation</u>	<u>Cost</u>

F. CONSTRUCTION \$ _____

UNALLOWABLE

G. CONSULTANTS/CONTRACTS \$ _____

CANNOT EXCEED \$650 AN HOUR

H. OTHER (NIBRS) \$ 1289.74 _____

This will account for the 3% of funds set aside for training personnel that will be responsible for the incident based reporting.

I. INDIRECT COST \$ _____

TOTAL DIRECT COSTS \$ _____

**EDWARD BYRNE MEMORIAL JUSTICE ASSISTANCE GRANT
BUDGET NARRATIVE:**

The grant allocation in the Justice Assistance Grant (JAG) Program FY 2019 Local Solicitation for the City of Lauderhill Police Department is net \$42,991.20. These funds will be allocated to purchase Cellebrite data extraction technology, Unmanned Aircraft system drones, the required software and hardware and related training and licensing costs.

Definitions and allocations of these projects are specified as follows:

A. PERSONNEL- N/A

B. FRINGE BENEFITS- N/A

C. TRAVEL- N/A

D. EQUIPMENT & TRAINING

The Lauderhill Police department is seeking to use the 2019 JAG grant funds to improve the efficiency of the police investigators by providing the latest Cellebrite technology in cell phone data extraction, and the Unmanned Aircraft System Drones. The purchase of all components of the Cellebrite technology will provide our investigators with an in-house analytical program that will help sort, organize, search, and make connections between extracted data. The hands-on training component will enable users to effectively utilize all the features and components of this powerful tool to generate a report to quickly establish a timeline between various data. The software will generate accurate reports and evidence to be presented in court. The Drones will be a huge asset in quickly being able to assess a threatening situation, while minimizing the risks to responding police officers, and ensuring a minimal loss of lives. Whether it is a search and rescue operation, flash mobs, crowd control, traffic and vehicle monitoring, a SWAT operation or an active shooter scene, the Drones will greatly benefit the officers of the Lauderhill Police department to efficiently perform its job of protecting the residents and

visitors and also keeping the officers safe. The training component will include testing and licensing fees and ensure compliance with all FAA guidelines.

E. SUPPLIES- N/A

F. CONSTRUCTION- This is not an ALLLOWABLE expense.

G. CONSULTANTS/CONTRACTS N/A

H. OTHER- NIBRS

This provides three percent of the award toward training costs and projects related toward becoming NIBRS compliant.