

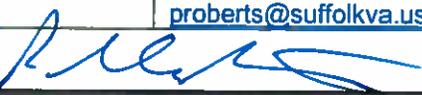


Commonwealth of Virginia
Virginia Department of Criminal Justice Services

Grant Application

Grant Program:	Byrne JAG Targeted Funding	Congressional District(s)	4 th
Applicant:	City of Suffolk Police Department	Faith Based Organization?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Applicant Federal ID Number:	54-6001636	Best Practice?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Jurisdiction(s) Served and Zip Codes:	City of Suffolk 23432, 23433, 23434, 23435, 23436, 23437, 23438, 23439		
Program Title:	Suffolk Police Department Gang and Drug Related Crime Reduction	Certified Crime Prevention Community?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Grant Period:	January 1, 2020- June 30, 2021	DUNS NUMBER:	066024845
Type of Application:	<input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation of Grant Number _____ <input type="checkbox"/> Revision of Grant Number _____		<input checked="" type="checkbox"/> Rural <input checked="" type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban

	Project Director	Project Administrator	Finance Officer
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Signature of Project Administrator: 

Brief Project Description:

With virtually every crime that occurs, there is information on an electronic device that will provide corroborating or exculpatory evidence. More likely, the data will provide damning information that implicates the suspect and/or exposes others. Breaking passcodes and extracting this information is a new field of specialty and the Suffolk Police Department has the knowledge but needs the tools to forensically search these devices. All local jurisdictions will also benefit from these tools as Suffolk is prepared to share them as needed.

Project Budget	DCJS Funds		Local Match	Total Requested
	Federal	State		
Personnel	0	0	0	0
Consultants	0	0	0	0
Travel	0	0	0	0
Equipment	\$82,737	0	0	\$82,737
Supplies/Other	0	0	0	0
Indirect Costs	0	0	0	0
Total Requested	\$82,737	0	0	\$82,737

Suffolk Police Department
Gang and Drug Related Crime Reduction
through Digital Forensics Equipment

Project Narrative

Sections

Need Statement

Project Description

Budget Narrative

Implementation Steps

Need Statement

It would be hard to imagine a crime committed today where a computer is not involved. Sometimes directly (i.e. cybercrimes, child pornography) or indirectly (calls to criminal co-conspirators, tracing of travel, video of crime). In any case, everyone's digital footprint is becoming more important. One criminal industry where cell phones are used in high volume, is drug trafficking. An arrest on one dealer and a search of his or her phone (either through warrant or consent) reveals users on one end and the dealer's supplier on the other. Over the past two years, the narcotics unit has searched approximately 35 cellular phones for data. Phone numbers and names associated with these dealers are fed into DEA databases. This has a multiplying effect when fighting the drug war. Another benefit of searching cell phones is to locate dealers after an overdose. In one fatal overdose case, the Department searched the victim's cell phone and was able to determine the dealer, who was subsequently charged with Voluntary Manslaughter.

In 2018 and 2019, the Department has processed 251 phones, with 103 of them (41%) being drug related (these includes various cities). Additional charges emerge when the contents of the devices have been examined.

The Suffolk Police Department, accredited by CALEA, has 195 allocated sworn positions and serves a population of over 92,000. Suffolk is one of the fastest growing localities in the Commonwealth and its population has increased 77% since 1990. With this growth, gangs have become more visible. In the early 2000's, Suffolk added 10 officers as a Gang suppression unit. Gangs are becoming more computer savvy and those dealing in drugs and launder their money with the purchase of bitcoins. A recent homicide in broad daylight and other subsequent

shootings were gang related. Much of the investigative work in that homicide was put together through the forensic evaluation of the cell phones of the parties involved.

While there is much incriminating information on these devices and others like computers and tablets, collecting that data has created difficulties for police departments. Only the most tech-savvy investigators and forensic personnel know what it takes to get into these devices. Some (other) Police Department administrators may be leery of sinking money into something they don't fully understand. The Suffolk Police Department does have staff that knows what it takes to fully collect digital data, but they don't have the tools. For example, currently the only way to crack an I-phone password is through a device that only the FBI and the State Police possess. This causes significant delay in getting into those devices. The items requested in this grant will give members of this Department the tools they need to forensically search a computer device. Furthermore, as the western anchor of Hampton Roads, Suffolk willfully shares its assets with other jurisdictions in the area. Those localities certainly don't have the resources to purchase, much less maintain, this vital equipment.

Project Description

The information on electronic devices can help virtually every member of the Department. However, they are forensically handled by two groups in the Department. One is the Forensic Unit which has expanded from not only working crime scenes, but being involved in electronic devices. They are well suited for this task and have learned how to work on such devices. They secure the tablets or phones or computers as evidence during the collection period. The other "group" is the cybercrimes unit. This consists of basically one detective to handle all these cases. Between these two units, all devices have data extracted. This information is then given to the investigating officers for further evaluation. With the requested tools, these units will be able to capture the information quicker and more efficiently. Together, they will exchange software and hardware to ensure the cases are handled as efficiently and effectively as possible. If one software device does not produce the desired data, another one may work better. Once the information is captured, it will be placed where it can be held as evidence according to Department policy. These units will also share this equipment with surrounding jurisdictions. This will help to improve their ability to solve crimes quicker without the unnecessary delay of sending devices to the state lab or the FBI. Once the hardware and software has been acquired, the Department will work with the City's IT Department to ensure that there is continuation funding for the program. They City's IT Department realizes the importance of these tools and carries the budget for all software licensing.

Budget Narrative

1. Personnel

2. Consultants

3. Travel and Subsistence

4. Equipment

Extracting data from different sources takes a lot of different equipment. Also, every brand of electronics has different operating systems and “speaks” a different language. Each item listed below will speak those languages and be capable of properly attaching to the device.

Data Extracting Device- Axiom Software is capable of extracting data from a variety of devices. There is a cost for the permanent software as well as the annual maintenance. Maintenance is vital because as technology changes, as does the way to extract it. There is also training for this software to increase the capabilities of the user. Software- \$3,600, Maintenance - \$2,000, Training- \$1,599, and shipping \$25.

Password cracking software for I-phone, Annual License- Getting into the very popular I-phone requires a program. Such program in this area only exists with a few agencies. This requires the Department to coordinate with those agencies to crack the phone. This takes time, as there is such a demand on this tool. The Department believes this tool would be beneficial to not only Suffolk, but many surrounding agencies to expedite this process. One year license \$18,075.

External Hard Drives, Thumb Drives- Various sizes- Data on a computer, phone, or other devices could be large or small. Having the right size hard drive or thumb drive for storage is cost-efficient and doesn't waste hard drive space. The Department is requesting 60 Hard drives of various size for \$5,900, and 100 64gb thumb drives for \$1,000.

Laptops for MacBook and Window applications- Having a field laptop that matches the two most popular operating systems will go a long way in being able to extract data from the original source. Compatible operating systems are imperative. One MacBook - \$1,500, one Windows laptop- \$1,300.

Mac data retrieval software- This software safely boots and acquires data from over 185 different Macintosh computer models. This software allows the user to forensically acquire files, folders, and systems while not affecting other areas. The cost is \$1,400.

High speed extraction cables- The downloading of data is optimized with high speed cables. And they are actually required for Macintosh products. Requesting 2 cables, total \$100.

Field data imager- This equipment can be taken into the field to create an exact forensic image of a device's content. The data can then be taken back to the Department's lab for full re-creation of the data and viewed in a controlled environment. This is most useful when the host

device cannot be moved (i.e. taking a computer from a place of business while open). Cost \$3,000.

Portable Back-up hard drive- Unlike the storage hard drive, this tool will be used to go into the field, collect the data and download it on the applicable storage device. This tool will be used over and over. Requesting two, total cost \$230.

External CD/DVD Drive- As technology has changed; many computers no longer have a CD/DVD drive. This will allow to user to use attach the external drive to collect data on a CD or DVD. Cost \$30.

Cables- Different devices uses different size cables to plug in. Having the right size cable will ensure the data is captured. Requesting 6 cables with various pins (4,6,9) Cost \$60 total.

Seagate 10TB external desktop Hard Drive- This device will be kept in the forensic unit so data can be down loaded and evaluated before storage on a smaller device. It will also be able to hold much of the non-evidentiary data. Cost \$248.

Faraday Isolation Boxes- Many of the smart phones can be tracked and can lock themselves when trying to get a signal. Isolation keeps the device in its static condition until such time as it can be forensically evaluated. Cost \$2,200.

I-phone and android passcode breaker and extraction software- This is a one-of-a-kind premium software and is not currently available anywhere. Many people use an I-phone and cracking the password to get into the system is extremely difficult. Even with this software, it can take days, months or years to try all the combinations to get in. However, once in, it can provide a vast amount of intelligence either in the prosecution of a case or further drug/gang information. Cost of a one year subscription is \$40,470.

5. Supplies and Expenses

6. Indirect Cost

Budget Summary

Category	Federal	State	Local	Total
Personnel and Benefits	0	0	0	0
Consulting (including Travel and Subsistence)	0	0	0	0
Travel and Subsistence for Project Personnel	0	0	0	0
Equipment	\$82,737	0	0	\$82,737
Supplies and Other Expenses	0	0	0	0
Indirect Costs	0	0	0	0
Total	\$82,737	0	0	\$82,737

Implementation Steps

Quarter	Step	Responsible Party	Resources/Material
1	Accept Grant Award by Governing Body	Administrative Analyst Joel Howard	Computer
	Coordinate Purchase of Equipment	A.A. Joel Howard, CSI Supervisor, J. Armstrong, Detective D. Smith, I.T. Rep., City's Purchasing Div.	Meeting Place, Computer
	Turn Quotes into Purchase Orders	Armstrong, Smith, Howard, Purchasing Div.	Computer
	Quarterly Reporting	Joel Howard	Computer
2	Received Software and Hardware	CSI Unit, Detective Smith	Same
	Begin Training and Utilization of equipment	CSI Unit, Detective Smith	Same
	Quarterly Reporting	Joel Howard	Same
3	Evaluate Equipment	CSI Unit, Detective Smith	Same
	Quarterly reporting on number of uses and successes	Joel Howard	Same
4	Continued utilization of equipment, evaluation and documentation	CSI Unit, Detective Smith	Same
	Quarterly reporting and evaluation, Prepare for closeout	Joel Howard	Same
	Work with IT to ensure continuation funding for maintenance and licensing	Joel Howard, Department's budget coordinator	Same
5	Continued use of equipment, evaluation and closeout of grant	Joel Howard, CSI Unit, Detective Smith	Same

ITEMIZED BUDGET

1. Personnel/Employees				DCJS FUNDS		APPLICANT MATCH		TOTAL
a. Name of Employees	Position Titles	Annual Salary Rate	Hours Devoted	FEDERAL	STATE	CASH	IN-KIND	
								\$0
								\$0
TOTAL				\$0	\$0	\$0	\$0	\$0
b. Fringe Benefits								\$0
FICA % =								\$0
RETIREMENT =								\$0
OTHER (Itemize) =								\$0
TOTAL				\$0	\$0	\$0	\$0	\$0
TOTAL PERSONNEL (A+B)				\$0	\$0	\$0	\$0	\$0

2. Consultants (including Travel and Subsistence)	DCJS FUNDS		APPLICANT MATCH		TOTAL
	FEDERAL	STATE	CASH	IN-KIND	
a. Individual Consultants					
Type					\$0
Hours Devoted:					\$0
TOTAL					
	\$0	\$0	\$0	\$0	\$0
b. Organizations and Associations					
Type:					\$0
Fee:					\$0
Time Devoted:					\$0
TOTAL					
	\$0	\$0	\$0	\$0	\$0
c. Consultants' Subsistence and Travel					
Number of Days:					\$0
Rate/Day:					\$0
TOTAL					
	\$0	\$0	\$0	\$0	\$0
TOTAL CONSULTANTS (a+b+c)					
	\$0	\$0	\$0	\$0	\$0

3. Travel and Subsistence for Project Personnel				DCJS FUNDS		APPLICANT MATCH		TOTAL
				FEDERAL	STATE	CASH	IN-KIND	
a.	Local Milage = No. of Miles X Rate Per mile	X						\$0
b.	Non Local Milage = No. of Miles X Rate Per mile	X						\$0
c.	Subsistance = number of days X rate per day	X						\$0
d.	Air or other fares							\$0
TOTAL TRAVEL:				\$0	\$0	\$0	\$0	\$0

ITEMIZED BUDGET Continued

4. Equipment				DCJS FUNDS		APPLICANT MATCH		TOTAL
Type	Quantity	Unit Price	Purchase or Rental	FEDERAL	STATE	CASH	IN-KIND	

Magnet Axiom Software	1	3600		\$3,600				\$3,600
Magnet Axiom Annual Maint	1	2000		\$2,000				\$2,000
Magnet Axiom Training	1	1599		\$1,599				\$1,599
Magnet Axiom shipping	1	25		\$25				\$25
GrayKey Software (License)	1	18,075		\$18,075				\$18,075
External Hard Drive 2TB	20	60		\$1,200				\$1,200
External Hard Drive 4TB	20	95		\$1,900				\$1,900
External Hard Drive 8 TB	20	140		\$2,800				\$2,800
Thumb Drives 64GB	100	10		\$1,000				\$1,000
Field MacBook	1	1500		\$1,500				\$1,500
Field Windows Laptop	1	1300		\$1,300				\$1,300
Maquisition Dongle	1	1400		\$1,400				\$1,400
Thunderbolt Cables	2	50		\$100				\$100
Falcon NEO Forensic Imager	1	3000		\$3,000				\$3,000
Seagate 5TB Harddrive	2	115		\$230				\$230
Seagate 10TB desktop harddrive (external)	1	248		\$248				\$248
External CD/DVD Drive	1	30		\$30				\$30
Fire Wire Cables (4,6,9) pin	6	10		\$60				\$60
Faraday Isolation box	1	2200		\$2,200				\$2,200
Cellebrite iOS and Android password and extractor 1 year	1			\$40,470				\$40,470
			TOTAL EQUIPMENT:	\$82,737	\$0	\$0	\$0	\$82,737

5. Supplies and Other Expenses			DCJS FUNDS		APPLICANT MATCH		TOTAL
			FEDERAL	STATE	CASH	IN-KIND	
Type	Quantity	Price					
							\$0
TOTAL SUPPLIES AND OTHER:			\$0	\$0	\$0	\$0	\$0

6. Indirect Cost			DCJS FUNDS		APPLICANT MATCH		TOTAL
			FEDERAL	STATE	CASH	IN-KIND	
							\$0
TOTAL INDIRECT COST:			\$0	\$0	\$0	\$0	\$0

GRAND TOTAL:	\$82,737	\$0	\$0	\$0	\$82,737
7. Cash Funds					
Cash funds from sources other than grant program supporting this project- (itemize).					
Do not add to requested Project Budget Summary accounts.)					
TOTAL:					

Applicants must complete and submit a *Project Plan* with their application. It is recommended that applicants choose one goal and no more than three objectives. Each objective must be Specific, Measurable, Achievable, Related to the project goal, and Time-bound (SMART). A separate form must be submitted for each objective.

Please use Times New Roman, 11 point. The text boxes will expand to accommodate text. Insert additional rows, if needed, for Activities. Otherwise, please do not alter the form.

1. Purpose Area	Suffolk Police Department - Drugs and Gangs Digital Forensics
2. Goal	Improve the capabilities of the Department and surrounding agencies by acquiring and utilizing the latest digital forensic software and hardware
3. Objective	By the end of the grant period, have purchased and placed into operation the latest digital equipment and offered it to surrounding agencies and acquire continuing funding through operational budgeting.
4. Grant Start/End Dates	January 1, 2020- June 30, 2021
5. Activities	
6. Mark months in which implementation step occurs	
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
Awarded grant and accepted by Governing body	X
Meet with IT and Purchasing to discuss best process for purchases	X
Solicit bids if needed or issue purchase orders	X
Purchase smaller items through internet or local vendor	X
Evaluate bids if needed and select vendor	X
Sign contracts with software vendors	X
Received purchased hardware and software and install with IT assistance	X X
Work with vendor for any training needs	X X
Establish protocol with other localities to offer assistance and alert to the availability of tools	X X
Work with IT and establish costs for FY 22 for continuation funding	X X X
Document usage by internal and external agencies and any success stories	X X X X X X
Grant Quarterly reporting which will extend through the end of the grant	X X X X X X
2021 Documentation	X X X X X
2021 Quarterly reporting	X X X
2021 Grant closeout	X