



Paul Coverdell Forensic Science Improvement Grants Program



*FY 2016 Grant Application
Program Narrative*

2016 Paul Coverdell Forensic Science Improvement Grants Program

Increase Laboratory Capability and Efficiency of Crime Scene Processing (Base Funds)

Enhancement of the Crime Scene Response Section Capability and Efficiency of Crime

Scene Screening and Documentation, and Increase the Laboratory Capability in the

Processing of Forensic Fingerprint Cases (Competitive Funds)

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Program Narrative (Base Funds)

Increase Laboratory Capability and Efficiency of Crime Scene Evidence

Screening and Processing

Program Scope

The scope of this proposal is to enhance Guam's only Forensic Science Laboratory capability and efficiency in evidence screening and processing for the Crime Scene Response Section by acquiring fingerprint/crime scene supplies to be used in the collection and preservation of evidence recovered at the crime scene. The objective is to provide fingerprint/crime scene supplies for the Crime Scene Response Section.

To address the objective, the Guam Police Department Forensic Science Laboratory will use the grant to purchase the following fingerprint/crime scene supplies such as evidence rule tape with dispenser, latent print brushes, transparent fingerprint lifting tape, evidence tape, scales, complete sprayer, double tip ultra fine/fine, sprayer bottles, fluorescent magnetic latent print powders, fingerprint pad, ridge builder, forensic scales, molybdenum disulfide super fine, search iodine crystal ampoules, omega print cyanoacrylate fuming compound to collect, preserve and process evidence recovered from crime scenes.

Support of this proposal will assist the Guam Police Department Forensic Science Laboratory in increasing Crime Scene Response Section capability and efficiency in evidence screening and processing. The program evaluation criteria will consist of the successful implementation of the forensic supplies for collecting and preserving evidence recovered from the crime for analysis. The program outcomes and effectiveness of the project will be based on the efficiencies that the Forensic Science Division will experience with the implementation of

the fingerprint/crime scene supplies. The anticipated outcome of this program is the increased forensic quality of the processed evidence.

Increase Laboratory Capability and Efficiency of Crime Scene Evidence Screening and Processing

Background

Guam’s government system is unique because there is only one level of Government. The Guam Police Department is the primary law enforcement agency with responsibility for Guam. The jurisdictional area is comprised of 180,692 citizens spread over a service area of 212 square miles. The department accomplishes its mission with a staff of 321 sworn officers and 58 full time civilian employees. The department reports an average of 4398 (5 year average beginning with 2010 to 2014) instances of major crime each year as reported by the Guam Police Department Planning and Research Division. The major crimes include murder, rape, robbery, aggravated assault, burglary, larceny-theft, motor vehicle theft, and arson. From Calendar Year 2011 to 2015, the Guam Police Department Forensic Science Division received an average of 2,257 forensic cases per year that cumulated an average of 34,214 pieces of evidence to be processed annually.

Guam Police Department Uniform Crime Report 2010 – 2014						
Offenses	2010	2011	2012	2013	2014	Average
Murder	3	6	3	8	7	5
Rape	40	91	68	106	118	85
Robbery	53	68	90	145	128	97
Aggravated Assault	272	332	298	401	294	319
Burglary	1165	1955	2463	1620	1578	1756
Larceny-theft	1264	1627	1760	2521	1973	1829
Motor Vehicle theft	227	218	377	378	258	292
Arson	16	16	13	13	17	15
Total	3040	4313	5072	5192	4373	4398

The Guam Police Department Forensic Science Division is the only U.S. Forensic Laboratory in the Western Pacific region. In addition to providing forensic services for Guam, it provides forensic services to local and federal law enforcement entities in Guam, the Commonwealth of the Northern Mariana Islands, and throughout Micronesia. The Forensic Science Division consists of three distinct sections: Crime Scene Response Section (CSRS), Forensic Science Section (FSS) and the Evidential Control Section (ECS). The CSRS provides services in the area of crime scene field investigation, photo lab, and latent print/fingerprint analysis, the FSS conducts analyses of drugs, serological, and firearms and tool mark evidence while the ECS is responsible for the preservation and safekeeping of all evidence confiscated and submitted to the Guam Police Department.

The Forensic Science Division has twenty-three (23) full time personnel. The staff consist of the following: 1 Division Chief (Police Captain), 1 Operations Chief (Police Lieutenant), 1 Crime Scene Response Section Operations Sergeant (Police Sergeant), 1 Chief Criminalist (Civilian), 1 Criminalist I (Civilian), 1 Criminalist II (Civilian), 3 Criminalist III (Civilians), 1 Firearms Examiner (PO III), 1 Firearms Examiner Trainee (PO III), 1 Photo Lab (PO I), 1 Senior Fingerprint Examiner (POIII), 1 Fingerprint Examiner II (Civilian), 2 Fingerprint Examiners (POIII and POII), 1 Fingerprint Examiner I Trainee (Civilian), 5 Crime Scene Investigators (3 POIIs, and 2 POIIIs), 1 Property Control Officer (1 Civilian). Of the twenty-three (23) full time personnel, there are six (6) qualifying full time scientists. At this time, the Forensic Science Division does not perform the following analyses: DNA analyses, complete toxicology, hair and fiber, gunshot residue, questioned document, paint and polymers,

soil, mineral and glass, and arson and explosives. This evidence is collected and sent off-island to the FBI laboratory for analysis.

Statement of the Problem

Annually, the Guam Police Department Forensic Science Division (GPD FSD) receives an average of 2,258 forensic cases, takes an average of 34,214 pieces of photographic forensic evidence, lifts an average of 5,637 latent prints, confiscates an average of 478 drug cases, receives an average of 55 drug cases, receives an average of 42 serological forensic cases, and receives an average of 11 firearms forensic cases. Due to the Governor of Guam austerity measures to reduce the deficit and budget cuts across the board to include existing essential programs, Guam’s only forensic laboratory is only processing forensic cases going to court, forensic cases with active leads, and forensic cases sent to laboratory. Confiscated evidence pending forensic analysis is being maintained in the Evidential Control Section. The challenging factors that limit the Crime Scene Response Section ability to provide quality and timely evidence processing are due to the limited forensic supplies available.

Funding under this grant is needed to purchase additional forensic crime scene supplies for the Crime Scene Response Section. The additional forensic supplies will enable the crime scene investigators to collect the forensic evidence for screening and processing in a timely manner without having to jeopardize the crime scene due to the lack of forensic supplies.

Forensic Science Division							
Forensic Cases Investigated and Forensic Evidence Received for Processing							
Year	Crime Scene Investigation	Photo Lab	Latent/Fingerprint Analysis	Drug Analysis		Serology	Firearm & Tool Mark Analysis
	Forensic Cases Investigated	Forensic Evidence Taken	Latent Prints Lifted	Drugs Confiscated	Drug Cases Received	Forensic Cases Received	Forensic Cases Received

Forensic Science Division							
Forensic Cases Investigated and Forensic Evidence Received for Processing							
Year	Crime Scene Investigation	Photo Lab	Latent/Fingerprint Analysis	Drug Analysis		Serology	Firearm & Tool Mark Analysis
2011	2526	30828	8349	595	47	33	8
2012	3703	25403	7005	290	69	49	14
2013	2020	36924	5036	402	64	38	11
2014	1872	38289	3651	405	63	50	6
2015	1168	39626	4142	698	32	39	14
Average Total	2258	34214	5637	478	55	42	11
Average turnaround time to process and deliver forensic evidence to the requesting agency is 2 to 3 days.							

Objective and Action Plan

The objective is to enhance the Guam Police Department Forensic Science Laboratory ability to collect and preserve the evidence by providing for additional crime scene supplies.

To accomplish this objective, the Guam Police Department Forensic Science Laboratory will purchase the following fingerprint/crime scene supplies such as evidence rule tape with dispenser, latent print brushes, transparent fingerprint lifting tape, evidence tape, scales, complete sprayer, double tip ultra fine/fine, sprayer bottles, fluorescent magnetic latent print powders, fingerprint pad, ridge builder, forensic scales, molybdenum disulfide super fine, search iodine crystal ampoules, omega print cyanoacrylate fuming compound. The crime scene supplies will ensure the Fingerprint Unit and the crime scene investigators have readily available supply to collect, preserve and process evidence recovered from crime scenes.

Benefits and Conclusions

Support of this proposal will assist the Guam Police Department Forensic Science Laboratory in increasing the Crime Scene Response Section capability and efficiency in evidence

screening and processing with the additional crime scene supplies. The program evaluation criteria will consist of the successful implementation of the crime scene supplies for collecting and preserving evidence recovered from the crime scene for analysis. The program outcomes and effectiveness of the project will be based on the efficiencies that the Forensic Science Division will experience with the implementation of the crime scene supplies. The anticipated outcome of this program is the increased forensic quality of the processed evidence.

Collection of Performance Measures Data

To assist in fulfilling the State Administrative Agency’s responsibilities under the Government Performance and Results Act (GPRA), Public Law 103-62, the Guam Police Department’s Forensic Science Division will provide and report data that measures the results of the program. The Performance Measures are as follows:

Objective	Performance Measures	Data Grantee Provides
To improve the quality and timeliness of forensic services and to reduce the number of backlogged cases in forensic laboratories.	<p>Outcome Measure</p> <ol style="list-style-type: none"> 1. Reduction in the average number of days from sample submission to a forensic science laboratory and delivery of test results to a requesting office or agency. 2. Percent reduction in the number of backlogged forensic cases. <p>Output Measures</p> <ol style="list-style-type: none"> 1. The number of forensic science or medical examiner personnel who completed appropriate training or education opportunities with Coverdell funds (if 	<ol style="list-style-type: none"> 1. Average number of days to process a sample at the beginning of the grant period. 2. Average number of days to process a sample at the end of the grant period. 3. Number of backlogged cases at the beginning of the grant period. 4. Number of backlogged cases at the end of the grant period. 5. Number of forensic science personnel attending training. 6. Number of medical examiner personnel attending training

Objective	Performance Measures	Data Grantee Provides
	applicable to the grant).	programs.
To implement recommendations as adopted by the National Commission on Forensic Sciences (NCFS) to strengthen the forensic science communities	Percent of agencies/organizations that are accredited with FY 2016 Coverdell funding	Number of agencies/organizations seeking initial accreditation with FY 2016 Coverdell funding Number of agencies/organizations obtaining initial accreditation with FY 2016 Coverdell funding Number of agencies/organizations using FY 2016 Coverdell funding for fees to maintain accreditation Number of agencies/organizations receiving funding
	Percent of certified individuals	Number of analysts Number of analysts certified Number of analysts seeking certification with FY 16 Coverdell funding

In addition to the NIJ defined performance measures, several other performance measures including the total turn-around time and the analytical turn-around time will be monitored. Total turn-around time is the number of days between the submissions of a request to the laboratory to the reporting of the results to the requesting agency. The analytical turn-around time is the number of days from when the analyst begins the analysis of the evidence to the reporting of the results to the requesting agency. The change in turnaround time will be calculated every three months and compared this to the initial turn-around time at the beginning of the grant period. The change in the number of backlogged cases will be evaluated every three months.

The Bureau of Statistics and Plans will develop a data table that will encompass the seven disciplines within the forensic laboratory. The data table along with the GPRA Coverdell

Performance Measures will be provided to the Guam Police Department Forensic Science Division Chief Criminalist in the Drug Analysis Section at the start date of the project. The Chief Criminalist is tasked with coordinating the collection of the data from each Unit within the Forensic Laboratory monthly. The Chief Criminalist will compile the data monthly, analyze the data quarterly and submits it to the Bureau fifteen days after the end of the calendar year quarter along with the quarterly progress report. The Chief Criminalist will ensure the data is accurate, auditable, and correctly measure the impact of the Federal funds provided. The data will be available for review 3 years after the grant has closed with the Bureau of Statistics and Plans, the State Administering Agency.

Program Narrative (Competitive Funds)

Enhancement of the Crime Scene Response Section Capability and Efficiency of Crime Scene Screening and Documentation, and Increase the Laboratory Capability in the Processing of Forensic Fingerprint Cases

Program Scope

The primary scope of this proposal is to enhance and improve the Crime Scene Response Section quality and timeliness in gathering and documenting and processing the crime scene evidence; to eliminate the backlog in the analysis of fingerprint evidence in the Fingerprint Unit; to maintain and increase the fingerprint examiners proficiency. The objectives are (1) to improve the quality, timeliness and efficiency of the Crime Scene Response Section of documenting and recording the crime scene by purchasing a 3D crime scene mapping system; (2) to analyze fingerprint evidence and to eliminate the backlog in the Fingerprint Unit by providing support for one Fingerprint Examiner I; (3) to provide training to maintain staff proficiency who are directly and substantially involved in providing forensic science service within the Fingerprint Unit, and (4) to replace aging computer workstations with state of the art computer workstations..

To meet the scope and objective, the Guam Police Department will purchase a 3D Crime Scene Mapping System for the documentation and recordation of images and data from the crime scene for the Crime Scene Response Section. The 3D Crime Scene Mapping System will improve the crime scene investigators time in reconstructing the crime scene thus making crime scene reconstruction more accurate, reliable, and easier to explain to a jury. It will also allow

investigators to revisit the crime scene in a virtual environment to view items that may have developed evidential value after further investigation.

To meet the second objective, the grant will provide personnel and fringe benefits for one Fingerprint Examiner I position. Due to the impending retirement of two experienced and qualified Fingerprint Examiner in two to three years, the Fingerprint Examiner I is of critical importance in the Fingerprint Analysis Unit to analyze fingerprint evidence and to reduce the backlog as well as to enhance their capacity with the additional position.

To meet the third objective, the Guam Police Department will provide specific latent fingerprint training opportunities to the fingerprint examiners to develop, to enhance and to increase knowledge in analyzing fingerprint evidence. Attendance at training and workshops will assist the fingerprint examiners in developing their proficiency and keeping current with new methods of analyzing fingerprint evidence.

To meet the fourth objective, the Guam Police Department will purchase four (4) computer workstations to replace the outdated computer workstations in the Crime Scene Response Section. The equipments will improve the quality and efficiency of the fingerprint examiners and crime scene investigators processing and collection of forensic evidence.

Support for this proposal will provide for equipments to improve the efficiency of evidence processing and analysis, provide support for a fingerprint examiner, and provide training opportunities. Meeting the objectives will result in providing resources to the Guam Police Department on Forensic Science Division Crime Scene Response Section to increase the efficiency of evidence collecting, screening and processing, and maintaining a proficient workforce. The subsequent expected outcome will be increased efficiency of and quality of the

evidence screening and processing of current and backlog cases and more timely quality service to the requesting agency.

Enhancement of the Crime Scene Response Section Capability and Efficiency of Crime Scene Screening and Processing; and Increase the Fingerprint Unit Capability in the Processing of Forensic Fingerprint Cases

Background

Guam’s government system is unique because there is only one level of Government. The Guam Police Department is the primary law enforcement agency with responsibility for Guam. The jurisdictional area is comprised of 180,562 citizens spread over a service area of 212 square miles. The department accomplishes its mission with a staff of 321 sworn officers and 58 full time civilian employees. The department reports an average of 506 (5 year average beginning with 2010 to 2014) instances of violent crimes each year to the Federal Bureau of Investigation as reported by the Guam Police Department Planning and Research Division. The violent crimes include murder, rape, robbery, and aggravated assault.

Guam Police Department Uniform Crime Report 2010 – 2014						
Offenses	2010	2011	2012	2013	2014	Average
Murder	3	6	3	8	7	5.4
Rape	40	91	68	106	118	84.6
Robbery	53	68	90	145	128	96.8
Aggravated Assault	272	332	298	401	294	319.4
Total	368	497	459	660	547	506.2
Source: Crime in Guam 2012 Uniform Crime Report (UCR), Guam Police Department; 2014 Guam Police Department UCR Preliminary Data						

The Guam Police Department Forensic Science Division is the only U.S. Forensic Laboratory in the Western Pacific region. In addition to providing forensic services for Guam, it

provides forensic services to local and federal law enforcement entities in Guam, the Commonwealth of the Northern Mariana Islands, and throughout Micronesia. The Forensic Science Division consists of three distinct sections: Crime Scene Response Section (CSRS), Forensic Science Section (FSS) and the Evidential Control Section (ECS). The CSRS provides services in the area of crime scene field investigation, photo lab, and latent print/fingerprint analysis; the FSS conducts analyses of drugs, serological, and firearms and tool mark evidence; and the ECS is responsible for the preservation and safekeeping of all evidence confiscated and submitted to the Guam Police Department.

The Forensic Science Division has twenty-three (23) full time personnel. The staff consist of the following: 1 Division Chief (Police Captain), 1 Operations Chief (Police Lieutenant), 1 Crime Scene Response Section Operations Sergeant (Police Sergeant), 1 Chief Criminalist (Civilian), 1 Criminalist I (Civilian), 1 Criminalist II (Civilian), 3 Criminalist III (Civilians), 1 Firearms Examiner (PO III), 1 Firearms Examiner Trainee (PO III), 1 Photo Lab (PO I), 1 Senior Fingerprint Examiner (POIII), 1 Fingerprint Examiner II (Civilian), 2 Fingerprint Examiners (POIII and POII), 1 Fingerprint Examiner I Trainee (Civilian), 5 Crime Scene Investigators (3 POIIs, and 2 POIIIs), 1 Property Control Officer (1 Civilian). At this time, the Forensic Science Division does not perform the following analyses: DNA analyses, complete toxicology, hair and fiber, gunshot residue, questioned document, paint and polymers, soil, mineral and glass, and arson and explosives. This evidence is collected and sent off-island to the FBI laboratory for analysis.

Annually, the Guam Police Department Forensic Science Division (GPD FSD) receives an average of 2,257 forensic cases, takes an average of 34,214 pieces of photographic forensic evidence, lifts an average of 5,636 latent prints, confiscates an average of 478 drug cases,

receives an average of 55 drug cases, receives an average of 41 serological forensic cases, and receives an average of 10 firearms forensic cases.

Forensic Science Division Forensic Cases Investigated and Forensic Evidence Received for Processing							
Year	Crime Scene Investigation	Photo Lab	Latent/Fingerprint Analysis	Drug Analysis		Serology	Firearm & Tool Mark Analysis
	Forensic Cases Investigated	Forensic Evidence Taken	Latent Prints Lifted	Drugs Confiscated	Drug Cases Received	Forensic Cases Received	Forensic Cases Received
2011	2526	30828	8349	595	47	33	8
2012	3703	25403	7005	290	69	49	14
2013	2020	36924	5036	402	64	38	11
2014	1872	38289	3651	405	63	50	6
2015	1168	39626	4142	698	32	39	14
Average Total	2257	34214	5636	478	55	41	10
Average turnaround time to process and deliver forensic evidence to the requesting agency is 2 to 3 days.							

Statement of the Problem

Due to the Governor of Guam austerity measures to reduce the deficit and implementation of budget cuts across the board for all agencies to include existing essential programs, Guam’s only forensic laboratory lacks resources to implement state of the art forensic technology equipment to process the crime scene in a timely manner, and additional personnel resources to augment the Crime Scene Response Section to process Fingerprint evidence and reduce backlog in the Fingerprint Analysis Unit. In light of this, the Fingerprint Analysis Unit will be losing the manpower needed to analyze fingerprint evidence. The challenging factors that limit the Fingerprint Unit’s ability to provide quality and timely processing, examination and comparison of fingerprint evidence is due to the near shortage of trained and experienced Fingerprint Examiners. Furthermore, the Crime Scene Response Unit spent countless manpower

and time processing and documenting crime scenes that often leads to excessive evidence processing of the crime scene.

The challenging factors that limit the Forensic Science Division to improve the quality of forensic services in the Crime Scene Response Section (CSRS) is the need to implement a 3D crime scene mapping system to quickly and efficiently document the crime scene using less manpower and time; and the need to hire an additional Fingerprint Examiner I to address the future loss of experienced and qualified Fingerprint Examiners and reduce backlog in the Fingerprint Analysis Unit.

The Crime Scene Response Section has three shifts with 1 CSI on duty per shift to respond to all CSI service request throughout the island. When responding to a violent crime incident, countless manpower and hours are spend gathering, processing, and documenting the crime scene with limited number of Crime Scene Investigators and Criminalist available. In CY 2014, of the 547 violent crime offenses reported, the Crime Scene Response Section spent an average of 6854 hours processing, documenting, reconstructing, and revisiting the crime scene. This is a 21% decrease over the processing, documenting, reconstructing, and revisiting of the CY 2013 reported violent crime offenses. Although, the most recent available data shows a decrease between CY 2013 and CY 2014, there was a 41% increase between CY 2012 and CY 2013. This averages out to a total average of 5296 hours of processing over CY 2012 through CY 2014. This detrimental factor leads to burnt out crime scene investigators, delays or in some cases not processing crime scenes of non-violent offenses as well as excessive processing of the crime scene. The following table depicts the violent crime offenses reported from 2012 to 2014 and the Crime Scene Response Section time spent processing, documenting, reconstructing and revisiting the crime scene.

CY 2012-2014 Violent Crime Offenses Reported and Crime Scene Response Section Time Spent Processing, Documenting, Reconstructing and Revisiting Crime Scene						
Violent Crime Offenses	Violent Crime Offenses Reported			Average Time Spent to Process, Document, Reconstruct, and Revisit Crime Scene in Hours		
	2012	2013	2014	2012	2013	2014
Murder	3	8	7	78	208	182
Rape	68	106	118	544	848	944
Robbery	90	145	128	720	1160	1024
Aggravated Assault	298	401	294	4768	6416	4704
TOTAL	459	660	547	6110	8632	6854
Note: Duration to Process Crimes Scene for Murder: Average of 26 hours; Rape: Average of 8 hours; Robbery: Average of 8 hours; Aggravated Assault: Average of 16 hours						
FTEs to Process Crime Scene for Murder: 5 FTE < 2 victim and 5 - 8 FTE > 2; Rape: 2 FTE; Robbery: 2 FTE; Aggravated Assault: Average of 2 FTE						

The Fingerprint/Latent Print Unit (FPU) of the Forensic Laboratory consists of four trained, experienced Fingerprint Examiners and one Fingerprint Examiner Trainee. However, one Fingerprint Examiner (Senior Examiner/POIII) is eligible for retirement; one Fingerprint Examiner (Civilian/FPEII) is eligible for retirement in 2 ½ years; one Fingerprint Examiner (POIII) is on medical leave since January 2015 with an indefinite return to duty date; one Fingerprint Examiner (POII) is currently assigned to the Crime Scene Unit within the forensic lab due to manpower shortage; and one Fingerprint Examiner Trainee (Civilian/FPEI). It would take approximately 2 years to get a Fingerprint Examiner fully trained. As a result the Fingerprint Analysis Unit would need to hire and fully train a Fingerprint Examiner I prior to the retirement and loss of experienced Fingerprint Examiners to include Professional Development in order to maintain proficiency within the Fingerprint Unit.

Forensic Science Division Crime Scene Response Section						
Year	Latent/Fingerprint Analysis					
	Latent Prints Lifted	Latent Prints of Value (LPV)	Manual Matches	AFIS Matches	Latent Prints Entered into AFIS	Latent Print Backlog***
					Unsolved Latent File (ULF)**	
2010	8152	644	0	84	1008	836
2011*	8349	460	0	44	282	970
2012	7005	487	1	93	552	811
2013	5036	367	0	124	653	401
2014	3651	216	0	101	287	1051
Average Total	6438.6	434.8	0.2	89.2	556.4	813.8

Average turnaround time to process and deliver forensic evidence to the requesting agency is 2 to 3 days.

Because of the 3 year statute of limitation for all crimes except homicide and CSC, backlog cases prior to 2011 will not be analyzed. There is no statute of limitation for homicide and CSC cases. The average total is calculated based on 2010 to Dec2014 data divided by 5.

*AFIS - Searches and Matches of Latent Prints and Ten prints beginning October 21, 2009.

**ULF - are latent prints entered into the AFIS that are being searched against the ten print databases 24/7. This is not considered backlog as the searches are continuous and active.

***Add Latent prints of value from 2007 - 2010; subtract from that Manual Matches from 2007, AFIS matches from 2009/2010 & ULF to equal Latent Print Backlog in 2010. For each successive year, add Latent Print Backlog to LPV then subtract AFIS Matches and ULF. This is not considered backlog as the searches are continuous and active.

Project/Program Design and Implementation

Objectives and Action Plan

The objectives are 1) to improve the quality, timeliness and efficiency of the Crime Scene Response Section of documenting and recording the crime scene by implementing a 3D crime scene mapping system; (2) to analyze fingerprint evidence and to eliminate the backlog in the Fingerprint Unit by providing support for one Fingerprint Examiner I; (3) to maintain and increase the fingerprint examiner proficiency and knowledge, and (4) to replace aging computer workstations with state of the art computer workstations.

Objective 1 – Optimize the Crime Scene Response Section workflow to Increase Efficiency and Quality of Documentation through the Implementation of a 3D Crime Scene Mapping System

The Crime Scene Response Sections require a great deal of manpower and time to gather and document the crime scene, most especially when it is a violent crime incident. The Guam Police Department will purchase a 3D Crime Scene Mapping System for the documentation and recordation of images and data from the crime scene for the Crime Scene Response Section. The 3D Crime Scene Mapping System will improve the crime scene investigators time in reconstructing the crime scene thus making crime scene reconstruction more accurate, reliable, and easier to explain to a jury. It will also allow investigators to revisit the crime scene in a virtual environment to view items that may have developed evidential value after further investigation. Thus, this state of the art technology equipment will reduce the manpower and times spent documenting the crime scene, and increase its capacity to respond to other non-violent crime scene in a timely manner.

Objective 2 – Process fingerprint evidence and reduce backlog in the Fingerprint Analysis Unit by providing for personnel and fringe benefits for a Fingerprint Examiner I

We are requesting funds for personnel and fringe benefits to support a fingerprint examiner I position. The Fingerprint/Latent Print Unit (FPU) of the Forensic Laboratory consists of four trained, experienced Fingerprint Examiners and one Fingerprint Examiner Trainee. However, one Fingerprint Examiner (Senior Examiner/POIII) is eligible for retirement; one Fingerprint Examiner (Civilian/FPEII) is eligible for retirement in 2 ½ years; one Fingerprint Examiner (POIII) is on medical leave since January 2015 with an indefinite return to duty date;

one Fingerprint Examiner (POII) is currently assigned to the Crime Scene Unit within the forensic lab due to manpower shortage; and one Fingerprint Examiner Trainee (Civilian/FPEI). This Fingerprint Examiner I will shadow the senior fingerprint examiners in the collection and processing of crime scene evidence. Prior to the federal funds for the position ending, the Guam Police Department will explore other federal funds in order to transition this position to the other grant funds in order to maintain the position beyond the grant funds. This position will maintain the FPU capacity to maintain a basic level of service when the two senior fingerprint examiners retire. Eventually this position will transition from federal to local with the retirement of the senior fingerprint examiners.

Objective 3 – Maintain and increase Fingerprint Examiners proficiency and knowledge base

To accomplish objective 3, the FPU will evaluate and identify specific latent print comparison and development training needed by the fingerprint examiners and schedule the training either through online webinars, on island and or off island. Some of the training may include courses in latent print processing and development, and latent print comparison, examination and identification as well as participation at the International Association for Identification educational conferences that will increase the fingerprint examiner knowledge on new methods and technique, and or participation at the Cogent User Group International education conference that will enhance the fingerprint examiners proficiency on the AFIS system. The Guam Police Department will explore bringing the instructor to Guam to minimize the per diem and travel cost as well as explore online training courses through the National Forensic Science Technology Center and Ron Smith and Associates, Inc. This will allow the Guam Police Department to train all of the fingerprint examiners in a cost effective way. The on

island training can be held at GPD's Forensic Laboratory training room. Off Island training opportunities will be identified for individuals requiring specialized technical training. Any trainees requiring a course to obtain competency or senior staff requiring a course to maintain proficiency will be given priority. In addition, priority for attendance at professional meetings will be given to current staff to assist them with maintaining proficiency and keeping current in their discipline.

Objective 4 – Optimize the output of laboratory work through the Implementation of State of the Art Computer Workstations

For objective 4, GPD FSD will purchase state of the art computer workstations to replace the aged ones. The state of the art computer workstation will improve the quality, timeliness and efficiency of the fingerprint examiners and crime scene investigators collecting, screening and processing of forensic evidence collected from the crime scene.

Benefits and Conclusions

Support for this proposal will provide for equipments (3D Crime Mapping System and State of the Art computer workstation) to improve the efficiency of evidence collection, processing and analysis, provide support for a fingerprint examiner, and provide training opportunities. Meeting the objectives will result in providing resources to the Guam Police Department Forensic Science Division Crime Scene Response Section to increase the efficiency of evidence collecting, screening and processing, and maintaining a proficient workforce. The subsequent expected outcome will be increased efficiency of and quality of the evidence screening and processing of current and backlog cases and more timely quality service to the requesting agency.

Collection of Performance Measures Data

The Bureau of Statistics and Plans developed a data table that encompasses the services provided by the Crime Scene Response Section within the forensic laboratory that will be used to monitor the total turn-around time and the analytical turn-around time. Total turn-around time is the number of days between the submissions of a request to the lab to the submission of the report to the requesting agency. The analytical turn-around time is the number of days from when the crime scene and fingerprint examiners begin the collection, screening and analysis of the evidence to the submission of the report. The Guam Police Department Chief Criminalist and Civilian Senior Fingerprint Examiner will calculate the change in turn-around time every three months and compare this to the initial turn-around time from the beginning of the grant period. The change in the number of backlogged cases will be evaluated every three months.

All of this data will be captured in the data table along with the GPRA Coverdell Performance Measures by the Guam Police Department Forensic Science Division Chief Criminalist and Civilian Senior Fingerprint Examiner at the start date of the project. The Chief Criminalist is task with coordinating the collection of the data from the Crime Scene Response Unit and Fingerprint Analysis Unit within the Forensic Laboratory on a monthly basis. The Chief Criminalist and Civilian Senior Fingerprint Examiner will compile the data monthly, analyze the data quarterly and submit it to the Bureau fifteen days after the end of the calendar year quarter along with the quarterly progress report. The Chief Criminalist and Civilian Senior Fingerprint Examiner will ensure the data is accurate, auditable, and correctly measure the impact of the Federal funds provided. The data will be available for review 3 years after the grant has closed with the Bureau of Statistics and Plans, the State Administering Agency. Furthermore, the

number of individuals receiving training or participating in continuing education opportunities will be tracked.

Capabilities/Competencies

The Guam Police Department has been a recipient of federal funds as a direct recipient and as a sub grantee since the early 1990s; and the Guam Police Department Forensic Science Division has been a recipient of federal funds as a sub grantee since 2007. The Chief Criminalist is the overall project director and is responsible for the administration of the subgrant funds, the implementation of the project and to ensure the timely submission of programmatic reports to the Bureau of Statistics and Plans, the State Administrative Agency of the Coverdell Program. The Guam Police Department Administrative Services Officer is responsible for ensuring the quarterly financial reports are prepared and submitted 45 days after the quarter ends to the Bureau of Statistics and Plans.

Upon the establishment and receipt of the grant award, the Guam Police Department's Forensic Science Division Chief Criminalist, Administrative Services Officer (ASO), Human Resource Manager, Management Information System (MIS) section, and Department of Administration General Services Agency (DOA-GSA) will collaborate to prepare for the purchase of the 3D Crime scene mapping system and state of art computer workstation, the recruitment of the Fingerprint Examiner, and the provide the training to the Fingerprint Examiners. The following processes will occur for the purchase of the 3D Crime scene mapping system, state of the art computer workstation, Fingerprint Examiner I recruitment, and training opportunity:

- The Chief Criminalist will prepare the 3D Crime scene mapping system bid specification for submission to the ASO in collaboration with the senior Crime Scene Response Examiner.
- The Senior Fingerprint Examiner will identify and coordinate the online webinar courses, on island training and off island training for the fingerprint examiners to attend.
- MIS will obtain the price quotations for the state of the art computer workstations.
- The ASO will encumber funds for the 3D Crime scene mapping system bid, bid advertisement, and computer workstations; and prepare the GG1 recruitment for the Chief of Police signature for submission to BBMR for financial clearance.
- The DOA-GSA will process the bid advertisement and the bid specification for the 3D Crime scene mapping system; and procure the equipment through sealed bids and select equipment based on lowest cost and most responsive.
- The DOA-GSA will process the requisition for computer workstations; and procure the workstations based on GSA guidelines.
- The Chief Criminalist, ASO, and MIS will be responsible for implementation of equipment.

The 3D Crime scene mapping system and computer workstations will be installed and operational 9 months after the grant has been subgranted to the Guam Police Department; the Fingerprint Examiner I will be hired 6 months after the grant has been subgranted to the Guam Police Department; and implementation of the training opportunity for the forensic examiners.

The following timeline is submitted to represent the proposed implementation of program activities. Actual realized implementation may vary slightly due to the establishment of the account and the additional time required in the competitive bidding process and recruitment.

Program Implementation Timeline

MONTH	ACTIVITIES
January – March 2017	<ul style="list-style-type: none"> ▪ Grant subgranted to the Guam Police Department. ▪ Chief Criminalist with assistance from ASO and MIS will prepare the Invitation for Bids for the 3D crime scene mapping system; and the ASO will encumber the funds for the bid advertisement. ▪ Chief Criminalist will obtain price quotations for the computer workstations; and the ASO will encumber the funds for the procurement. ▪ DOA-GSA will process the bid advertisement and bid specification. ▪ ASO will prepare the GG1 recruitment for the Fingerprint Examiner I; Chief of Police will sign GG1 recruitment; and BBMR will clear GG1 recruitment. ▪ DOA-HR will process recruitment GG1. ▪ Senior Fingerprint Examiner will identify, coordinate and plan the training for the Fingerprint Examiner.
April – June 2017	<ul style="list-style-type: none"> ▪ DOA-HR will prepare and announce Fingerprint Examiner I position, Review and Rate Application, Prepare and Submit Eligibility List to GPD for Interviews. ▪ GPD will form interview committee and conduct interviews. Selection made and background check conducted on Fingerprint Examiner I ▪ DOA-GSA announces bid advertisement (2 weeks). After 2 weeks sealed bids are reviewed and based on lowest cost and most responsive, vendor

MONTH	ACTIVITIES
	<p>will be awarded.</p> <ul style="list-style-type: none"> ▪ Fingerprint Examiners will participate in online webinar courses, on island training, and off island training. ▪ Chief Criminalist, ASO, and MIS will be responsible for coordinating receipt and delivery of equipment. ▪ Chief Criminalist compiles data and prepares quarter progress report; and ASO prepares quarter financial report. ▪ Fingerprint Examiners will participate in online webinar courses, on island training, and off island training.
<p>July – September 2017</p>	<ul style="list-style-type: none"> ▪ The Guam Police Department FSD personnel will be trained on the operational use of the 3D crime mapping equipment. ▪ Crime Scene Response Section will develop and implement Standard Operating Procedures on operational use of 3D crime mapping equipment. ▪ New Fingerprint Examiner I will undergo training with the senior Fingerprint Examiner. ▪ Chief Criminalist compiles data and prepares quarter progress report; and ASO prepares quarter financial report. ▪ Fingerprint Examiners will participate in online webinar courses, on island training, and off island training.
<p>October – December</p>	<ul style="list-style-type: none"> ▪ Crime Scene Response Section is utilizing the 3D crime scene mapping system at crime scenes.

MONTH	ACTIVITIES
2017	<ul style="list-style-type: none"><li data-bbox="412 300 1247 331">▪ Laboratory personnel are utilizing the computer workstations.<li data-bbox="412 373 1419 478">▪ New Fingerprint Examiner I is processing fingerprint evidence and backlog fingerprint cases.<li data-bbox="412 520 1146 552">▪ Fingerprint Examiner provided training opportunities.<li data-bbox="412 594 1419 772">▪ Process grant project for closure, prepare final financial and close out narrative reports, prepare and submit the grant program evaluation and effectiveness report.

FY 2016 Paul Coverdell Budget Detail Worksheet & Budget Narrative - Base Funds

**Budget Detail Worksheet and Budget Narrative and Budget Summary
 FY 2016 Paul Coverdell Forensic Science Improvement Grant Program
 October 1, 2016 to September 30, 2017
 Base Funds**

A. Personnel--List each position by title and name of employee, if available. Show the annual salary rate and the percentage of time to be devoted to the project. Compensation paid for employees engaged in grant activities must be consistent with that paid for similar work within the applicant organization.

<u>Position</u>	<u>Computation</u>	<u>Unit</u>	<u>Cost</u>
TOTAL PERSONNEL			\$0.00

B. Fringe Benefits--Fringe benefits should be based on actual known costs or an established formula. Fringe benefits are for the personnel listed category (A) and only for the percentage of time devoted to the project. Fringe benefits on overtime hours are limited to FICA, Workman's Compensation, and Unemployment Compensation.

TOTAL FRINGE BENEFITS			\$0.00
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C. Travel-- Itemize travel expenses of project personnel by purpose (e.g., staff to training, field interviews, advisory group meetings, etc. Show the basis of computation (e.g., six people 3-day training at \$X airfare, \$X lodging, \$X subsistence). In training projects travel and meals for trainees should be listed separately. Show the number of trainees and unit cost involved. Identify the location of travel, if known. Indicate source of Travel Policies applied, Applicant or Federal Travel Regulations.

<u>Purpose of Travel</u>	<u>Item</u>	<u>Computation</u>	<u>Cost</u>
TOTAL TRAVEL			\$0.00

D. Equipment-- List non-expendable items that are to be purchased. Non-expendable equipment is tangible property having a useful life of more than two years and an acquisition cost of \$5,000 or more per unit. (Note: Organization's own capitalization policy may be used for items costing less than \$5,000). Expendable items should be included either in the "supplies" category or in the "Other" category. Applicants should analyze the cost benefits of purchasing versus leasing equipment, especially high cost items and those subject to rapid technical advances. Rented or leased equipment costs should be listed in the "Contractual" category. Explain how the equipment is necessary for the success of the project. Attach a narrative describing the procurement method to be used.

<u>Item</u>	<u>Computation</u>	<u>Unit</u>	<u>Cost</u>
TOTAL EQUIPMENT			\$0.00

E.-Supplies--List items by type (office supplies, postage, training materials, copying paper, and other expendable items such as books, hand held tape recorders) and show the basis for computation. Generally, supplies include any materials that are expendable or consumed during the course of the project.

<u>State Administrative Agency Supplies</u>	<u>Computation</u>	<u>Unit</u>	<u>Cost</u>
HP Laserjet Printer Color Black Toner	\$218.50	2	\$437.00
SUBTOTAL OFFICE SUPPLIES (SAA)			\$437.00

<u>Forensic Fingerprint / Latent Print Supplies</u>	<u>Computation</u>	<u>Unit</u>	<u>Cost</u>
Search reference evidence rule tape with dispensar	\$12.00	10	\$120.00
Latent print brushes	\$12.00	50	\$600.00
Transparent Fingerprint Lifting Tape	\$10.00	50	\$500.00
Fluorescent Magnetic latent print powders	\$55.00	4	\$220.00
Porelon Fingerprint Pad	\$25.00	10	\$250.00
Lansberry's Ridge Builder	\$15.00	10	\$150.00
Forensic scales	\$8.00	20	\$160.00
Sirchmark evidence tape	\$16.00	50	\$800.00
Preval Complete Sprayer (9 oz)	\$9.00	20	\$180.00
Sharpie double tip ultra fine/fine	\$25.00	5	\$125.00
Sprayer bottles (adjustable nozzle)	\$10.00	20	\$200.00

Molybdenum Disulfide Super Fine (1 lb)	\$53.00	5	\$265.00
Search Iodine Crystal Ampoules	\$28.00	10	\$280.00
Omega print cyanoacrylate fuming compound	\$8.60	10	\$86.00
SUB TOTAL OFFICE SUPPLIES			\$3,936.00
TOTAL OFFICE SUPPLIES			\$4,373.00

Budget Narrative: The State Administrative Agency will use the administrative cost to purchase the necessary office supplies to be used towards the general administration of the program.

The fingerprint and crime scene supplies are for the Crime Scene Unit to be used in the collection and preservation of evidence recovered at the crime scene.

F. Construction-- As a rule, construction costs are not allowable. In some cases, minor repairs or renovations may be allowable. Consult with the program office before budgeting funds in this category.

<u>Purpose</u>	<u>Description of Work</u>	<u>Cost</u>
Not Applicable (N/A)		
TOTAL CONSTRUCTION		\$0.00

G. Consultants/Contracts-- Indicate whether applicant's formal, written Procurement Policy or the Federal Acquisitions

Consultant Fee: For each consultant enter the name, if known, service to be provided, hourly or daily fee (8-hour day), and estimated time on the project. Consultant fees in excess of \$450 per day require additional justification and prior approval from OJP.

<u>Name of Consultant</u>	<u>Service Provided</u>	<u>Computation</u>	<u>Cost</u>
Not Applicable (N/A)			
Consultant Expenses		Sub Total Consultant Fee	\$0.00
<u>Item</u>	<u>Location</u>	<u>Computation</u>	<u>Cost</u>
Not Applicable (N/A)			
		Sub Total Consultant Expenses	\$0.00
Contracts			
<u>Item</u>	<u>Computation</u>	<u>Unit</u>	<u>Cost</u>
Not Applicable (N/A)			
		Sub Total Contracts	\$0.00
TOTAL CONSULTANTS/CONTRACTS			\$0.00

H. Other Costs-- List items (e.g., rent, reproduction, telephone, janitorial or security services, and investigative or confidential funds) by major type and the basis of the computation. For example, provide the square footage and the cost per square foot rent, and provide a monthly rental cost and how many months to rent.

<u>Description</u>	<u>Computation</u>	<u>Unit</u>	<u>Cost</u>
Not Applicable (N/A)			\$0.00
			\$0.00
		Sub Total Shipping and Handling	\$0.00
TOTAL OTHER COSTS			\$0.00

I. Indirect Cost-- Indirect costs are allowed only if the applicant has Federally approved indirect cost rate. A copy of the rate approval, (a fully executed, negotiated agreement), must be attached. If the applicant does not have an approved rate, one can be requested by contacting the applicant's cognizant Federal agency, which will review all documentation and approve a rate for the applicant organization, or if the applicant's accounting system permits, costs may be allocated in the direct costs categories.

Not Applicable (N/A)			
TOTAL INDIRECT COST			\$0.00
TOTAL BASE FUNDS			\$4,373.00

FY 2016 PAUL COVERDELL BASE BUDGET SUMMARY

<u>Budget Category</u>	<u>Amount</u>
A. Personnel	\$0.00
B. Fringe Benefits	\$0.00
C. Travel	\$0.00
D. Equipment	\$0.00
E. Supplies	\$4,373.00
F. Construction	\$0.00
G. Consultants/Contracts	\$0.00
H. Other	\$0.00
I. Indirect Cost	\$0.00
TOTAL	\$4,373.00

FY 2016 Paul Coverdell Budget Detail Worksheet & Budget Narrative - Competitive Funds

**Budget Detail Worksheet and Budget Narrative and Budget Summary
FY 2016 Paul Coverdell Forensic Science Improvement Grant Program
October 1, 2016 to September 30, 2017**

Competitive Grant

A. Personnel--List each position by title and name of employee, if available. Show the annual salary rate and the percentage of time to be devoted to the project. Compensation paid for employees engaged in grant activities must be consistent with that paid for similar work within the applicant organization.

<u>Position</u>	<u>Computation</u>	<u>Cost</u>
Fingerprint Examiner I Salary	1/4 per hour x 2080	100% \$28,595.00
TOTAL PERSONNEL		\$28,595.00

Budget Narrative: *The Fingerprint Examiner I will be responsible for processing fingerprint evidence and reduce backlog of forensic fingerprint cases. The Fingerprint Examiner I will work a total of 2080 hours at an hourly rate of \$13.74 over the life cycle of the grant program (\$13.74 x 2080 = \$28,595.00)*

B. Fringe Benefits--Fringe benefits should be based on actual known costs or an established formula. Fringe benefits are for the personnel listed category (A) and only for the percentage of time devoted to the project. Fringe benefits on overtime hours are limited to FICA, Workman's Compensation, and Unemployment Compensation.

<u>Position</u>	<u>Computation</u>	<u>Unit</u>	<u>Cost</u>
Fingerprint Examiner I Hazard Pay	\$28,595.00	4%	\$1,144.00
Fingerprint Examiner I Special Pay	\$28,595.00	10%	\$2,860.00
Fingerprint Examiner I Retirement	\$28,595.00	28.16%	\$8,052.00
Fingerprint Examiner I Medical	\$6,511.00	1	\$6,511.00
Fingerprint Examiner I Dental	\$404.00	1	\$404.00
Fingerprint Examiner I Medicare	\$28,595.00	1.45%	\$415.00
Fingerprint Examiner I Life	\$178.00	1	\$178.00
DDI Contribution	\$494.00	1	\$494.00
TOTAL FRINGE BENEFITS			\$20,058.00
TOTAL PERSONNEL AND FRINGE BENEFITS			\$48,653.00

Budget Narrative: *The Fingerprint Examiner I position is authorized hazardous pay, and the hazardous pay is subject to Medicare tax. The Government of Guam calculates Medicare with hazard pay. The benefits budget include the following special pay (\$2860), retirement (\$8052), medical (\$6511), dental (\$404), medicare (\$414.63), life (\$178), DDI Contribution (\$494) and hazard pay (\$28,595 x 4% = \$1144) over the life cycle of the grant program.*

C. Travel-- Itemize travel expenses of project personnel by purpose (e.g., staff to training, field interviews, advisory group meetings, etc. Show the basis of computation (e.g., six people 3-day training at \$X airfare, \$X lodging, \$X subsistence). In training projects travel and meals for trainees should be listed separately. Show the number of trainees and unit cost involved. Identify the location of travel, if known. Indicate source of Travel Policies applied, Applicant or Federal Travel Regulations.

<u>Purpose of Travel</u>	<u>Item</u>	<u>Computation</u>	<u>Cost</u>
(220) Forensic Science Training to include but not limited to the following: "Introduction to the Science of Fingerprints Training", "Basic Latent Fingerprint Comparison Course", "International Association for Identification Educational Conference", and "Palm Print Comparison Techniques"		\$2,600.00 Economy Y Airfare x 4 trainings	\$10,400.00
(220) Forensic Science Training Per Diem to include transportation		\$175 per diem x 5 days = \$700 x 4 = \$3500 and \$50 transportation x 4 = \$200	\$3,700.00

(Applicant Travel Regulations Applied)

TOTAL TRAVEL \$14,100.00

Budget Narrative: Training to include but not limited to the following: "Introduction to the Science of Fingerprints Training", "Basic Latent Fingerprint Comparison Course", "International Association for Identification Educational Conference", and "Palm Print Comparison Techniques". The forensic training will maintain and increase the forensic examiners skills and proficiency, and to demonstrate to the general public and the criminal justice system that the laboratory output is of the highest quality and that the procedures used meet established standards. Funds will be used to cover economy airfare, training days plus one travel day, and transportation to and from the airport using the Government of Guam Travel Policy. Estimated Travel Cost: \$10,575 (Economy Airfare: \$2600 x 3 trainings = \$7800 plus Per Diem: \$175 x 4 training days x 1 travel day = \$875 x 3 training = \$2625 plus \$50 transportation x 3 training = \$150 = \$10,575). Guam will use Guam's Travel Regulations.

D. Equipment-- List non-expendable items that are to be purchased. Non-expendable equipment is tangible property having a useful life of more than two years and an acquisition cost of \$5,000 or more per unit. (Note: Organization's own capitalization policy may be used for items costing less than \$5,000). Expendable items should be included either in the "supplies" category or in the "Other" category. Applicants should analyze the cost benefits of purchasing versus leasing equipment, especially high cost items and those subject to rapid technical advances. Rented or leased equipment costs should be listed in the "Contractual" category. Explain how the equipment is necessary for the success of the project. Attach a narrative describing the procurement method to be used.

<u>Item</u>	<u>Computation</u>	<u>Unit</u>	<u>Cost</u>
FARO Focus3D Laser Scanner X330 w/ Case	\$59,990.00	1	\$59,990.00
HDR camera for the Focus 3D Laser Scanner X330	\$5,000.00	1	\$5,000.00
Super Power User Notebook	\$5,000	1	\$5,000.00
Power Block battery for Laser Scanner Focus 3D	\$715.00	1	\$715.00
High-level carbon fiber tripod for Focus3D X 330	\$910.00	1	\$910.00
200mm Koppa Target w/ Tripod Mount Kit	\$2,322.00	1	\$2,322.00
80mm Koppa Target Set w/ Trajectory Rods	\$1,143.00	1	\$1,143.00
FARO Freestyle 3D X Handheld Scanner w/ Case	\$13,500.00	1	\$13,500.00
Set of 25 Targets for Freestyle 3D	\$40.00	1	\$40.00
Windows-Based Tablet for use with Freestyle	\$1,950.00	1	\$1,950.00
NIST Calibrated Scale Bar	\$1,895.00	1	\$1,895.00
State of the Art Computer Workstation All-In-One Workstations and laptop w/ 17" monitor	\$2,947.00	4	\$11,788.00
TOTAL EQUIPMENT			\$104,253.00

Budget Narrative: FARO Focus3D Laser Scanner X330 with power notebook and accessories, Freestyle 3D X with tablet and accessories, licenses, on site training, software, maintenance, and hardware warranties. The FARO Focus 3D Scanner can record a detailed 3D point cloud overlaid with color images which can be used to produce accurate realistic 3D computer graphical modules which results in an accurate 3D representation of the crime scene from which any measurement can be made. The scanned images can be used in a variety of applications including examining a crime scene at a later date in a virtual environment. The FARO Focus3D Laser Scanner and Freestyle 3D X Scanning System will reduce the Crime Scene Response Section time processing and documenting the crime scene.

Budget Narrative: The state of the art computer workstations will improve the quality, timeliness and efficiency of the fingerprint examiners and crime scene investigators collecting, screening and processing of forensic evidence collected from the crime scene

E.--Supplies--List items by type (office supplies, postage, training materials, copying paper, and other expendable items such as books, hand held tape recorders) and show the basis for computation. Generally, supplies include any materials that are expendable or consumed during the course of the project.

<u>Supply Items</u>	<u>Computation</u>	<u>Unit</u>	<u>Cost</u>
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Sub Total Office Supplies			\$0.00
TOTAL OFFICE SUPPLIES			\$0.00
Budget Narrative:			
F. Construction-- As a rule, construction costs are not allowable. In some cases, minor repairs or renovations may be allowable. Consult with the program office before budgeting funds in this category.			
<u>Purpose</u>	<u>Description of Work</u>	<u>Cost</u>	
Not Applicable (N/A)			
TOTAL CONSTRUCTION			\$0.00
Budget Narrative:			
G. Consultants/Contracts-- Indicate whether applicant's formal, written Procurement Policy or the Federal Acquisitions			
Consultant Fee: For each consultant enter the name, if known, service to be provided, hourly or daily fee (8-hour day), and estimated time on the project. Consultant fees in excess of \$450 per day require additional justification and prior approval from OJP.			
<u>Name of Consultant</u>	<u>Service Provided</u>	<u>Computation</u>	<u>Cost</u>
Consultant Expenses		Sub Total Consultant Fee	\$0.00
<u>Item</u>	<u>Location</u>	<u>Computation</u>	<u>Cost</u>
Latent Print Comparison, Examination and Identification Consultant and or Latent Print Processing and Development Training to include travel and per diem expense and training materials		\$15,000	\$15,000.00
		Sub Total Consultant Expenses	\$15,000.00
Contracts			
<u>Item</u>	<u>Computation</u>	<u>Unit</u>	<u>Cost</u>
5-Day On-Site Forensics Customer Site Training (6 students max per class)	\$10,900.00	2	\$21,800.00
FARO Scene Extension Software	\$2,000.00	1	\$2,000.00
Reality Crime Diagramming Software	\$9,995.00	1	\$9,995.00
FARO CZ Point Cloud Module	\$3,500.00	1	\$3,500.00
FARO Crash Zone Outdated Version Upgrade	\$650.00	1	\$650.00
SCENE-Hard Lock - Single User - USB Dongle	\$190.00	1	\$190.00
FARO Freestyle3D Standard 3-yr Warranty	\$2,900.00	1	\$2,900.00
SCENE software maintenance - 3yrs	\$2,490.00	1	\$2,490.00
FARO Focus3D X Standard 3-yr Warranty	\$11,385.00	1	\$11,385.00
		Sub Total Contracts	\$54,910.00
TOTAL CONSULTANTS/CONTRACTS			\$69,910.00
Budget Narrative: Contract a Licensed Trainer on Latent Print Comparison, Examination and Identification Consultant and or Latent Print Processing and Development to include travel and per diem expense and training materials			

Budget Narrative: *The FARO Focus3D Laser Scanner will be used to reduce the Crime Scene Response Section time processing and documenting the crime scene. The funding will be used to cover the cost the onsite training, licenses, software, maintenance and hardware warranties.*

H. Other Costs-- List items (e.g., rent, reproduction, telephone, janitorial or security services, and investigative or confidential funds) by major type and the basis of the computation. For example, provide the square footage and the cost per square foot rent, and provide a monthly rental cost and how many months to rent.

<u>(230) Training Registration</u>	<u>Computation</u>	<u>Unit</u>	<u>Cost</u>
Training Registration to include but not limited to the following:			
Introduction to the Science of Fingerprints Training	\$600.00		\$600.00
Basic Latent Fingerprint Comparison Course, International Association for Identification Educational Conference,	\$600.00		\$600.00
Palm Print Comparison Techniques Training	\$725.00		\$725.00
Online Training Ron Smith and Associates, Inc	\$600.00	2 Fingerprint Examiners	\$1,200.00
(230) Bid Advertisement for 3D Crime Scene Mapping	\$600.00		\$600.00
	\$300.00		\$300.00
Sub Total Other			\$4,025.00
TOTAL OTHER COSTS			\$4,025.00

Budget Narrative: *Forensic Science Training registration cost for 4 trainings and the registration cost is estimated to be from \$600 to \$725 per training. The Bureau is calculating the registration at \$600 per trainings x 3 training plus \$725 x 1 training = \$2525 and 2 online training through Ron Smith and Associates, Inc for 2 personnel (2 x \$600 = \$1200).*

Budget Narrative: *Bid Advertisement for FARO Focus3D Laser Scanner X330 and Freestyle 3D X Scanning System. This is necessary as the estimated cost for the equipment is over \$15,000, and the Government of Guam procurement rules and regulations requires a sealed bid.*

Not Applicable (N/A)

TOTAL INDIRECT COST \$0.00

TOTAL COMPETITIVE FUNDS \$240,941.00

FY 2016 PAUL COVERDELL COMPETITIVE BUDGET SUMMARY

<u>Budget Category</u>	<u>Amount</u>
A. Personnel	\$28,595.00
B. Fringe Benefits	\$20,058.00
C. Travel	\$14,100.00
D. Equipment	\$104,253.00
E. Supplies	\$0.00
F. Construction	\$0.00
G. Consultants/Contracts	\$69,910.00
H. Other	\$4,025.00
I. Indirect Cost	\$0.00
TOTAL	\$240,941.00

FY 2016 Coverdell Budget Narrative – Base Funds

State Administrative Agency Cost

Supplies: The State Administrative Agency will use the administrative cost to purchase the necessary office supplies to be used towards the general administration of the program. The supplies include 2 HP Laserjet Printer Color Black Toner @ \$218.50. Estimated Office Supplies Cost: \$437.

Subrecipient Cost

Supplies:

Fingerprint and Crime Scene Supplies for Crime Scene Response Section: GPD will purchase the necessary fingerprint/crime scene supplies to be used in the collection and preservation of fingerprint evidence recovered at the crime scene. The supplies include the following: 12 Search reference evidence rule tape with dispenser @ \$12, 50 Latent print brushes @ \$12, 50 Transparent Fingerprint Lifting Tape @ \$10, 4 Fluorescent Magnetic latent print powders @ \$55, 10 Porelon Fingerprint Pad @ \$25, 10 Lansberry's Ridge Builder @ \$15, 20 Forensic scales @ \$8, 50 Sirchmark evidence tape @\$16, 20 Preval Complete Sprayer (9 oz) @ \$9, 5 Sharpie double tip ultra fine/fine @ \$25, 20 Sprayer bottles (adjustable nozzle) @ 10, 5 Molybdenum Disulfide Super Fine (1 lb) @ \$53, 10 Search Iodine Crystal Ampoules @\$28, 10 Omega print cyanoacrylate fuming compound @ \$8.60 to be used to collect and preserve fingerprint evidence recovered from evidence and crime scenes. Estimated Office Supplies Cost: \$3936.

FY 2016 Coverdell Budget Narrative – Competitive Funds

Subrecipient Cost

Personnel:

Fingerprint Examiner I. The Fingerprint Examiner I will be assigned to the Fingerprint Analysis Unit and will be responsible for processing fingerprint evidence and reduce backlog fingerprint cases. Based on an hourly rate of \$13.74 and an estimated expenditure of 2080 hours of an 8 hour work day of the annual salary of \$28,595 over the life cycle of the grant program. Total Salary for Fingerprint Examiner I: 28,595.

Fringe Benefits:

Fingerprint Examiner I. The Fingerprint Examiner I will be assigned to the Fingerprint Analysis Unit and will be responsible for processing fingerprint evidence and the backlog fingerprint cases. Based on the hazardous pay, special pay, retirement, medical, dental, Medicare and life unit cost and an estimated expenditure of \$20,058 over the life cycle of the grant program. Total Benefits for Fingerprint Examiner I: \$20,058.

Travel:

Forensic Science Training. Training to include but not limited to the following: "Introduction to the Science of Fingerprints Training", "Basic Latent Fingerprint Comparison Course", "International Association for Identification Educational Conference", and "Palm Print Comparison Techniques". The forensic training will maintain and increase the forensic examiners skills and proficiency, and to demonstrate to the general public and the criminal justice system that the laboratory output is of the highest quality and that the procedures used meet established standards. Funds will be used to cover economy airfare, training days plus one travel day, and transportation to and from the airport using the Government of Guam Travel

Policy. Estimated Travel Cost: \$10,575 (Economy Airfare: \$2600 x 4 trainings = \$10400 plus Per Diem: \$175 x 4 training days x 1 travel day = \$875 x 4 training = \$3500 plus \$50 transportation x 4 training = \$200 = \$14,100).

Equipment:

FARO Focus3D Laser Scanner X330 with power notebook and accessories, Freestyle 3D X with tablet and accessories. The FARO Focus 3D Scanner can record a detailed 3D point cloud overlaid with color images which can be used to produce accurate realistic 3D computer graphical models which results in an accurate 3D representation of the crime scene from which any measurement can be made. The scanned images can be used in a variety of applications including examining a crime scene at a later date in a virtual environment. The FARO Focus3D Laser Scanner and Freestyle 3D X Scanning System will reduce the Crime Scene Response Section time processing and documenting the crime scene. Estimated Purchase Cost: \$147,375.

State of the Art Computer Workstations. The computer workstations will improve the quality, timeliness and efficiency of the fingerprint examiners and crime scene investigators collecting, screening and processing of forensic evidence collected from the crime scene. Estimated Purchase Cost: \$11,788 (4 x \$2947).

Contractual:

Latent Print Comparison, Examination and Identification Consultant and or Latent Print Processing and Development Training Services. GPD will bring a trainer to Guam to conduct the training to maintain and increase the forensic examiners skills and proficiency, and to demonstrate to the general public and the criminal justice system that the laboratory output is of the highest quality and that the procedures used meet established standards. Estimated Cost:

FARO Focus3D Laser Scanner licenses, onsite training, software, maintenance, and hardware warranties. This is for the licenses, onsite training, software, and maintenance and hardware warranties. Estimated Contract Cost: \$55,201.

Other Costs:

Bid Advertisement for FARO Focus3D Laser Scanner X330 and Freestyle 3D X Scanning System. This is necessary as the estimated cost for the equipment is over \$15,000, and the Government of Guam procurement rules and regulations requires a sealed bid. Estimated Cost for Bid Advertisement: \$300.

Registration Cost. Forensic Science Training registration cost for 4 trainings and the registration cost is estimated to be from \$600 to \$725 per training. The Bureau is calculating the registration at \$600 per trainings x 3 training plus \$725 x 1 training = \$2525. Estimated Registration Cost: \$2525.

FY 2016 Coverdell Statutory Certifications

FY 2016 Paul Coverdell External Investigations Certifications