



The [U.S. Department of Justice](#) (DOJ), [Office of Justice Programs](#) (OJP), [National Institute of Justice](#) (NIJ) is seeking applications to conduct pilot studies to evaluate the effects of alternative lighting, markings, and paint schemes on law enforcement vehicle operations and safety. This program furthers the Department's mission by sponsoring research to provide objective, independent, evidence-based knowledge and tools to meet the challenges of crime and justice, particularly at the State and local levels.

Evaluating the Efficacy of Lighting, Markings, and Paint Schemes in Reducing the Incidence of Law Enforcement Vehicle Crashes

Eligibility

In general, NIJ is authorized to make grants to, or enter into contracts or cooperative agreements with, States (including territories), units of local government (including federally recognized Indian tribal governments as determined by the Secretary of the Interior), nonprofit and for-profit organizations (including tribal nonprofit and profit organizations), institutions of higher education (including tribal institutions of higher education), federally funded research and development centers (FFRDCs), and certain qualified individuals. For-profit organizations must agree to forgo any profit or management fee. Foreign governments, foreign organizations, and foreign institutions of higher education are not eligible to apply.

NIJ may elect to make awards for applications submitted under this solicitation in future fiscal years, dependent on the merit of the applications and on the availability of appropriations.

Deadline

Applicants must register with [Grants.gov](#) prior to submitting an application. (See "How to Apply," page 22.) All applications are due by 11:59 p.m. eastern time on **April 25, 2013**. (See "Deadlines: Registration and Application," page 3.)

Contact Information

For technical assistance with submitting an application, contact the Grants.gov Customer Support Hotline at 800-518-4726 or 606-545-5035, or via e-mail to support@grants.gov.

Note: The [Grants.gov](#) Support Hotline hours of operation are 24 hours a day, 7 days a week, except federal holidays.

For assistance with any other requirements of this solicitation, email NIJ at ST-Research@ojp.usdoj.gov. Additional information can be found at www.nij.gov/nij/funding/welcome.htm, and frequently asked questions that may assist with applying are posted at www.nij.gov/funding/faqs.htm.

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Evaluating the Efficacy of Lighting, Markings, and Paint Schemes in Reducing the Incidence of Law Enforcement Vehicle Crashes (CFDA No. 16.560)

Overview

The purpose of the National Institute of Justice (NIJ) Research, Evaluation, and Development Project Grants program is to encourage and support research, development, and evaluation to improve criminal justice policy and practice in the United States.

With this solicitation, NIJ seeks proposals to conduct evaluations of the impact of alternative lighting, markings, and painting schemes for law enforcement vehicles on the incidence of traffic accidents involving law enforcement vehicles. NIJ is also interested in determining how these schemes may otherwise affect law enforcement operations.

Authorizing Legislation: Title I of the Omnibus Crime Control and Safe Streets Act of 1968 (sections 201 and 202), and Homeland Security Act of 2002 (section 232).

Deadlines: Registration and Application

Applicants must register with Grants.gov in order to submit an application. OJP encourages applicants to **register several weeks before** the application submission deadline. In addition, OJP urges applicants to submit applications 72 hours prior to the application due date. The deadline to apply for funding under this announcement is 11:59 p.m. eastern time on **April 25, 2013**. See "How to Apply" on page 22 for details.

Eligibility

Refer to the title page for eligibility under this program.

Program Specific Information

NIJ's Science and Technology (S&T) program sponsors research, development, test, and evaluation efforts to improve the safety and effectiveness of the tools and technologies used by criminal justice agencies. Although Federal agencies are part of its constituency, NIJ's primary focus is on the needs of State and local agencies.

NIJ's efforts to reduce law enforcement officer line-of-duty deaths and disabling injuries include research to improve traffic safety. From 2001 to 2010, traffic accidents were the single most prevalent cause of such deaths.¹

Over the past decade, NIJ and other Federal agencies have funded research to determine the causes of law enforcement vehicle crashes and how they might be mitigated. This research has

¹ Law Enforcement Officers Killed & Assaulted 2010, Federal Bureau of Investigation, www.fbi.gov/about-us/cjis/ucr/leoka/leoka-2010.

identified improved lighting and marking schemes as one potential means to reduce such crashes.

Relevant studies include:

- Inferences about Emergency Vehicle Warning Lighting Systems from Crash Data (Jul. 2005) (www.ncjrs.gov/pdffiles1/nij/231358.pdf)
- Effects of Warning Lamps on Pedestrian Visibility and Driver Behavior (Apr. 2007) (www.sae.org/standardsdev/tsb/cooperative/nblighting.pdf)
- Effects of Warning Lamp Color and Intensity on Driver Vision (Oct. 2008) (www.sae.org/standardsdev/tsb/cooperative/warninglamp0810.pdf)
- Emergency Vehicle Visibility and Conspicuity Study (Aug. 2009) (www.usfa.fema.gov/downloads/pdf/publications/fa_323.pdf)

In 2010, NIJ funded Ohio University to conduct human factors research to evaluate the effectiveness of alternative lighting, paint, and retro reflective materials schemes to determine the most effective schemes for emergency vehicles. This study uses driving simulators. It will be completed by June 2013.

The “Emergency Vehicle Visibility and Conspicuity Study,” in particular, suggested several changes in how vehicles should be marked to improve their visibility in traffic. These included:

- Outlining vehicle boundaries with “contour” or “edge” markings, using retro reflective material [Retroreflective tape matched to the vehicle’s base color also can be used to maintain an unmarked appearance during the day, but enhance visibility/conspicuity at night.]
- Using fluorescent colors on emergency vehicles to enhance daytime visibility/conspicuity in traffic safety applications [Mission requirements for law enforcement vehicles should drive decisions about whether to incorporate fluorescent colors in their liveries. For example, a traffic enforcement vehicle designed to be inconspicuous will probably not use fluorescent colors to enhance its daytime visibility (although color-matched retro reflective edge markings should be considered for officer safety at night).]

With this solicitation, NIJ seeks proposals from state, local, or tribal law enforcement agencies partnered with research organizations, or from research organizations partnered with state, local, or tribal law enforcement agencies to conduct a pilot to put into practice the findings and recommendations of this body of research and to evaluate the impact of doing so on law enforcement. In addition to determining its impact on reducing the incidence of law enforcement vehicle crashes, NIJ is also interested in determining if and how the implemented lighting, marking, and paint schemes affect law enforcement operations and how such schemes might be improved to address those effects.

The sample size necessary to demonstrate effects may require the involvement of multiple agencies. Both law enforcement agencies and research organizations may participate in multiple applications.

Because of the comparatively short period within which to submit applications, and because the Ohio University research is not yet completed, the successful applicants will not be evaluated on

the specific lighting, marking, and paint schemes that they propose. Rather, they will be evaluated on the strength of the evaluation research proposed, and its relevance to the largest number of law enforcement agencies in the United States, as well as the cost of that research. After the award(s) is/are made, if any, NIJ will work collaboratively with the successful applicants to determine the lighting and marking schemes to be evaluated, based on the relevant research, the needs of the agencies involved and the operational environments within which those agencies function, as well as the research methodology proposed.

Successful applicants will be able to demonstrate:

- A significantly high traffic incident rate with available data for analysis on the part of the agencies involved;
- The commitment of the agencies involved to make the necessary modifications to fleet vehicles in lighting, paint, and/or marking; and
- The commitment of the agencies involved for the necessary data collection on vehicular incidents before, during, and after implementation.

Among the factors that will be used to evaluate the merit of an applicant's proposal are:

- The experience of the research partner organizations in conducting such evaluations;
- The applicability and scalability of the results of this research to other law enforcement agencies' operations across the United States;
- The likelihood that the data resulting from this research will likely lead to a definitive conclusion regarding the impact of the proposed lighting, marking, and paint schemes; and
- The likelihood that the method(s) proposed by the applicants to disseminate the results of this research will foster the adoption into practice by law enforcement agencies of the resulting findings and recommendations.

Letters of commitment to the applicant from the agencies or research organizations involved are required.

NIJ funds may only be used to pay for the retrofit of the police vehicles involved in this evaluation with the lighting, marking, and paint schemes required by the research and for the work of the research organizations involved. For the purposes of budgeting, applicants should assume that the vehicles involved would have to be repainted, have their boundaries marked with retro reflective material, and have their warning lamps replaced. NIJ will work with the successful applicant to modify their estimated budget as necessary based on future determinations regarding the appropriate lighting, marking, and painting schemes.

Goals, Objectives, and Deliverables

The ultimate goal of NIJ's traffic-safety research efforts is to introduce into practice new tools, policies, and practices that will significantly reduce the number of officers killed or injured on the road each year. The core objective of this particular research project is to foster that goal by evaluating the efficacy of lighting, marking, and paint schemes to reduce the incidence of police vehicle crashes and to disseminate that information as widely as possible.

Successful applicants will be required to provide three formal intermediary reports during the project and a final report. The three intermediary reports will detail the awardee's pre-implementation, implementation, and post-implementation activities.

At the conclusion of this project, successful applicants will submit a final report. This report will detail the applicants' research design, implementation, results, findings, and recommendations. This report will not only detail the efficacy of the proposed lighting, marking, and paint schemes in reducing police vehicle crashes, but also their effect, if any, on law enforcement operations; how these effects were addressed to include changes in practice and/or equipment and technology; and any recommended improvements to the proposed lighting, marking, and paint schemes arising from consideration of those impacts. The report will detail any challenges to implementation and how they were overcome. It will also provide information on the vehicle accidents that were considered as part of this evaluation in as much detail as is available. Information of interest includes, but is not limited to:

- Cause of the accident.
- Type of roadway and number of lanes.
- Whether or not the accident occurred at an intersection.
- Visibility and other potentially relevant environmental factors.
- Time of the accident.
- Whether the vehicle was engaged in a law enforcement operation at the time and the nature of that operation (e.g., patrol, traffic stop, pursuit, other).

Amount and Length of Awards

All awards are subject to the availability of appropriated funds and to any modifications or additional requirements that may be imposed by law.

NIJ anticipates that it will make one or more awards under this solicitation and that up to \$1,000,000 will be made available for an initial project period of up to 12 months. Subsequent funding, if any, will be determined by the results of the initial phase of work, the availability of funding, and agency priorities, among other factors.

Applicants should be aware that the total period of an award, including one that receives a project period extension, ordinarily will not exceed 3 years. The duration proposed by the applicants should not be constrained by this arbitrary limit. Rather, it should be determined by their research plan.

NIJ recommends that applicants divide the proposed work into discrete phases, with each phase resulting in the delivery of measurable deliverables. A formal report documenting the grantees progress will be required at the end of each phase.

NIJ expects that efforts proposed in response to this solicitation will have at least three phases: (1) pre-implementation data collection and analysis, (2) implementation strategy and procedures, and (3) post-implementation data collection and analysis. Applicant's proposals should address all phases of the proposed effort. These phases should be developed based on the research plan and not on funding or yearly increments, unless that is most conducive to the project.

To the extent possible, applicants should try to structure the phases so that the funding required in any fiscal year will not exceed \$500,000. However, the structure of the research must support the research plan.

Evaluation research: Within applications proposing evaluation research, funding priority will be given to experimental research designs that use random selection and assignment of participants to experimental and control conditions. When randomized designs are not feasible, priority will be given to quasi-experimental designs that include contemporary procedures such as Propensity Score Matching or Regression Discontinuity Design to address selection bias in evaluating outcomes and impacts. Ultimately, however, the proposed research methodology, and the fundability of the proposal, will be evaluated based on the methodology's applicability and utility to the research question and the circumstances.

Evaluations that also include measurements of program fidelity and implementation as part of a thorough process assessment are desirable. Measurements of program fidelity should be included as part of an assessment of program processes and operations to ensure that policies, programs, and technologies are implemented as designed. As one aspect of a comprehensive evaluation, assessments of program processes should include objective measurements and qualitative observations of programs as they are actually implemented and of services that are delivered. These may include assessment of such aspects as adherence to program content and protocol, quantity and duration, quality of delivery, and participant responsiveness.

Proposed evaluation research designs with multiple units of analysis and multiple measurements will also be given priority. Design aspects that contribute to the validity of results are necessary to effectively address issues of generalizability and representativeness of findings.

Finally, applications that include cost/benefit analysis will be given priority. NIJ views cost/benefit analysis as an effective way to communicate and disseminate findings from evaluation research.

Please note: All applicants under this solicitation must comply with Department of Justice regulations on confidentiality and human subjects' protection. See "Other Requirements for OJP Applications" at www.ojp.usdoj.gov/funding/other_requirements.htm.

What will not be funded:

1. Provision of training or direct service.
2. Proposals primarily to purchase equipment, materials, or supplies. (Your budget may include these items if they are necessary to conduct applied research, development, demonstration, evaluation, or analysis.)
3. Work that will be funded under another specific solicitation.
4. Proposals that do not contain a research component or do not respond to the specific goals of this solicitation.
5. Proposals that do not address the specific topics identified in this solicitation as they are described.

Budget Information

Limitation on Use of Award Funds for Employee Compensation; Waiver

With respect to any award of more than \$250,000 made under this solicitation, recipients may not use federal funds to pay total cash compensation (salary plus cash bonuses) to any employee of the award recipient at a rate that exceeds 110% of the maximum annual salary payable to a member of the Federal Government's Senior Executive Service (SES) at an agency with a Certified SES Performance Appraisal System for that year. The 2012 salary table for SES employees is available at www.opm.gov/oca/12tables/indexSES.asp. Note: A recipient may compensate an employee at a greater rate, provided the amount in excess of this compensation limitation is paid with non-federal funds. (Any such additional compensation will not be considered matching funds where match requirements apply.)

The Director of the National Institute of Justice may exercise discretion to waive, on an individual basis, the limitation on compensation rates allowable under an award. An applicant requesting a waiver should include a detailed justification in the budget narrative of the application. Unless the applicant submits a waiver request and justification with the application, the applicant should anticipate that OJP will request the applicant to adjust and resubmit the budget.

The justification should include the particular qualifications and expertise of the individual, the uniqueness of the service the individual will provide, the individual's specific knowledge of the program or project being undertaken with award funds, and a statement explaining that the individual's salary is commensurate with the regular and customary rate for an individual with his/her qualifications and expertise, and for the work to be done.

Minimization of Conference Costs

OJP encourages applicants to review the OJP guidance on conference approval, planning, and reporting that is available on the OJP Web site at www.ojp.gov/funding/confcost.htm. This guidance sets out the current OJP policy, which requires all funding recipients that propose to hold or sponsor conferences (including meetings, trainings, and other similar events) to minimize costs, requires OJP review and prior written approval of most conference costs for cooperative agreement recipients (and certain costs for grant recipients), and generally prohibits the use of OJP funding to provide food and beverages at conferences. The guidance also sets upper limits on many conference costs, including facility space, audio/visual services, logistical planning services, programmatic planning services, and food and beverages (in the rare cases where food and beverage costs are permitted at all).

Prior review and approval of conference costs can take time (see the guidance for specific deadlines), and applicants should take this into account when submitting proposals. Applicants also should understand that conference cost limits may change and that they should check the guidance for updates before incurring such costs.

Note on food and beverages: OJP may make exceptions to the general prohibition on using OJP funding for food and beverages, but will do so only in rare cases where food and beverages are not otherwise available (e.g., in extremely remote areas); the size of the event and capacity of nearby food and beverage vendors would make it impractical to not provide food

and beverages; or a special presentation at a conference requires a plenary address where conference participants have no other time to obtain food and beverages. Any such exception requires OJP's prior written approval. The restriction on food and beverages does not apply to water provided at no cost, but does apply to any and all other refreshments, regardless of the size or nature of the meeting. Additionally, this restriction does not affect direct payment of per diem amounts to individuals in a travel status under your organization's travel policy.

Costs Associated With Language Assistance (if applicable)

If an applicant proposes a program or activity that would deliver services or benefits to individuals, the costs of taking reasonable steps to provide meaningful access to those services or benefits for individuals with limited English proficiency may be allowable. Reasonable steps to provide meaningful access to services or benefits may include interpretation or translation services where appropriate.

For additional information, see the "Civil Rights Compliance" section of the OJP "Other Requirements for OJP Applications" Web page at www.ojp.usdoj.gov/funding/other_requirements.htm.

Match Requirement

See "Cofunding" paragraph under "What an Application Should Include" (below).

Performance Measures

To assist the Department with fulfilling its responsibilities under the Government Performance and Results Act of 1993 (GPRA), Public Law 103-62, and the GPRA Modernization Act of 2010, Public Law 111-352, applicants that receive funding under this solicitation must provide data that measure the results of their work done under this solicitation. OJP will require any award recipient, post award, to provide the data requested in the "Data Grantee Provides" column so that OJP can calculate values for the "Performance Measures" column. (Submission of performance measures data is not required for the application.) Performance measures for this solicitation are as follows:

Objective	Performance Measure(s)	Data Grantee Provides
<p>Provide safer, more effective tools and technologies for use by criminal justice agencies.</p>	<ol style="list-style-type: none"> 1. Relevance to the needs of the field as measured by whether the grantee's substantive scope did not deviate from the funded proposal or any subsequent agency modifications to the scope. 2. Quality of the research as assessed by peer reviewers. 3. Quality of management as measured by whether significant interim project milestones were achieved, final deadlines were met, and costs remained within approved limits. 4. If applicable, number of fielded technologies. 5. If applicable, number of NIJ final grant reports, NIJ research documents, and grantee research documents published. 	<ol style="list-style-type: none"> 1. A final report providing a comprehensive overview of the project and a detailed description of the project design, data, and methods; a full presentation of scientific findings; and a thorough discussion of the implications of the project findings for criminal justice practice and policy in the United States. 2. Quarterly financial reports, semi-annual progress reports, and a final progress report. 3. If applicable, each data set that was collected, acquired, or modified in conjunction with the project. 4. If applicable, description of fielded technologies. 5. If applicable, citation to report(s)/documents.

OJP does not require applicants to submit performance measures data with their applications. Instead, applicants should discuss in their application their proposed methods for collecting data for performance measures. Refer to the section “What an Application Should Include” on page 11 for additional information.

Notice of Post-Award FFATA Reporting Requirement

Applicants should anticipate that OJP will require all recipients (other than individuals) of awards of \$25,000 or more under this solicitation, consistent with the Federal Funding Accountability and Transparency Act of 2006 (FFATA), to report award information on any first-tier subawards totaling \$25,000 or more, and, in certain cases, to report information on the names and total compensation of the five most highly compensated executives of the recipient and first-tier subrecipients. Each applicant entity must ensure that it has the necessary processes and systems in place to comply with the reporting requirements should it receive funding. Reports

regarding subawards will be made through the FFATA Subaward Reporting System (FSRS), found at www.fsrs.gov.

Please note also that applicants should anticipate that no subaward of an award made under this solicitation may be made to a subrecipient (other than an individual) unless the potential subrecipient acquires and provides a Data Universal Numbering System (DUNS) number.

What an Application Should Include

Applicants should anticipate that if they fail to submit an application that contains all of the specified elements, it may negatively affect the review of their application; and, should a decision be made to make an award, it may result in the inclusion of special conditions that preclude the recipient from accessing or using award funds pending satisfaction of the conditions.

Moreover, applicants should anticipate that applications that are determined to be nonresponsive to the scope of the solicitation, or that do not include the application elements that NIJ has designated to be critical, will neither proceed to peer review nor receive further consideration. Under this solicitation, NIJ has designated the following application elements as critical: Program Narrative, Budget Detail Worksheet and Budget Narrative, and resumes/curriculum vitae of key personnel. Applicants may combine the Budget Narrative and the Budget Detail Worksheet in one document. However, if an applicant submits only one document, it must contain **both** narrative and detail information.

OJP strongly recommends that applicants use appropriately descriptive file names (e.g., "Program Narrative," "Budget Detail Worksheet and Budget Narrative," "Timelines," "Memoranda of Understanding," "Resumes") for all attachments. Also, OJP recommends that applicants include resumes in a single file.

1. Information to Complete the Application for Federal Assistance (SF-424)

The SF-424 is a required standard form used as a cover sheet for submission of pre-applications, applications, and related information. Grants.gov and GMS take information from the applicant's profile to populate the fields on this form. When selecting "type of applicant," if the applicant is a for-profit entity, select "For-Profit Organization" or "Small Business" (as applicable).

2. Abstract

Applications should include a high-quality "Project Abstract" that summarizes the proposed project in 250-400 words. Project abstracts should be—

- Written for a general public audience.
- Submitted as a separate attachment with <Project Abstract> as part of its file name.
- Single-spaced, using a standard 12-point font (Times New Roman) with 1-inch margins.

As a separate attachment, the project abstract will **not** count against the page limit for the program narrative.

All project abstracts should follow the detailed template available at www.ojp.usdoj.gov/funding/Project_Abstract_Template.pdf and the supplemental instructions below.

The abstract is a critical part of your application, serving as an important introduction to your proposed study. NIJ uses the abstract for a number of purposes, including assignment to the appropriate independent review panel. If your proposal is funded, the abstract typically will become public information and be used to describe your proposed work. The abstract must be 250-400 words and describe the proposed work succinctly and accurately. The abstract does not count against the XX-page limit for the program narrative, and should follow this format:

1. **Goals and Objectives:** State the purpose of the project, the problem to be investigated, and the anticipated relevance to criminal justice policy, practice, and theory.
2. **Subjects:** If applicable, include the number of subjects in your study and a description of their characteristics, such as age, gender, race/ethnicity, and other pertinent attributes.
3. **Research Design and Methods:** Summarize how the work will be organized and conducted by including one or more of the following:
 - Describe the methods proposed including a clear timeline, the type of data, collection strategies, instruments, study sites, and other methods or procedures. For an evaluation, clearly describe the type of evaluation (randomized control trial, quasi-experimental design, or process evaluation).
 - State the hypothesis and the innovative potential of the research; list and briefly describe the specific aims; and briefly describe the research rationale and the experiments that will be conducted to accomplish each aim.
 - For technology development efforts, briefly describe how the technology is to be introduced into practice. If applicable, provide an overview of the anticipated commercialization strategy.
 - For technology research and development projects, briefly describe key technology challenges and how they will be overcome.
4. **Analysis:** Summarize the techniques proposed for data analysis. Summarize steps to be taken to strengthen the reliability and validity of the analysis.
5. **Products, Reports, and Data Archiving:** Describe the expected products such as data sets, interim and final reports, and tools or technologies. If applicable, describe data to be archived under NIJ's Data Resource Program.

Permission to Share Project Abstract with the Public: It is unlikely that NIJ will be able to fund all promising applications submitted under this solicitation, but it may have the opportunity to share information with the public regarding promising but unfunded applications, for example, through a listing on a webpage available to the public. The intent of this public posting would be to allow other possible funders to become aware of such proposals.

In the project abstract template, applicants are asked to indicate whether they give OJP permission to share their project abstract (including contact information) with the public. Granting (or failing to grant) this permission will not affect OJP's funding decisions, and, if the application is not funded, granting permission will not guarantee that abstract information will be shared, nor will it guarantee funding from any other source.

Note: OJP may choose not to list a project that otherwise would have been included in a listing of promising but unfunded applications, should the abstract fail to meet the format and content requirements noted above and outlined in the project abstract template.

3. Program Narrative

The program narrative section of the application should not exceed 30 double-spaced pages in 12-point font with 1-inch margins. Abstract, table of contents, charts, figures, appendices, and government forms do not count toward the 30-page limit for the narrative section.

If the program narrative fails to comply with these length-related restrictions, NIJ may consider such noncompliance in peer review and in final award decisions.

The following sections should be included as part of the program narrative.

Program Narrative Guidelines:

- a. **Title Page** (not counted against the 30-page program narrative limit).
The title page should include the title of the project, submission date, funding opportunity number, and the applicant's name and complete contact information (i.e., name, address, telephone number, and e-mail address).
- b. **Resubmit Response** (if applicable) (not counted against the 30-page program narrative limit). If an applicant is resubmitting a proposal that was presented previously to NIJ, but not funded, the applicant should indicate this. A statement should be provided, no more than two pages, addressing: (1) the title, submission date, and NIJ-assigned application number of the previous proposal, and (2) a brief summary of revisions to the proposal. This document should be inserted after the abstract.
- c. **Table of Contents and Figures** (not counted against the 30-page program narrative limit).

d. **Main body.** The main body of the program narrative should describe the project in depth. The following sections should be included as part of the program narrative:

- Statement of the Problem.
- Project/Program Design and Implementation.
- Capabilities/Competencies.
- Impact/Outcomes and Evaluation.
- Dissemination Strategy.

Within these sections, the narrative should address:

- Purpose, goals, and objectives.
- Review of relevant literature.
- Detailed description of research design and methods to include: research questions, hypotheses, description of sample, analysis plan, etc.
- Implications for criminal justice policy and practice in the United States.
- Management plan and organization.

e. **Appendices** (not counted against the 30-page program narrative limit) include:

- Bibliography/references.
- Any tools/instruments, questionnaires, tables/charts/graphs, or maps pertaining to the proposed study.
- Curriculum vitae, resumes or biographical sketches of key personnel.
- Project timeline and research calendar with expected milestones.
- Research independence and integrity (see “Selection Criteria,” below).
- Human Subjects Protection Paperwork including Institutional Review Board (IRB) documentation and forms (see www.ojp.gov/nij/funding/humansubjects/human-subjects.htm).
- Privacy Certificate (for further guidance go to www.ojp.gov/nij/funding/humansubjects/privacy-certificate-guidance.htm).
- List of previous and current NIJ awards to applicant organization and investigator(s).
- Letters of cooperation/support or administrative agreements from organizations collaborating in the project, such as law enforcement and correctional agencies (if applicable).
- List of other agencies, organizations, or funding sources to which this proposal has been submitted (if applicable).
- Other materials specified by the solicitation.

4. **Budget Detail Worksheet and Budget Narrative**

a. **Budget Detail Worksheet**

A sample Budget Detail Worksheet can be found at www.ojp.gov/funding/forms/budget_detail.pdf. Applicants that submit their budget in a different format should include the budget categories listed in the sample budget worksheet.

For questions pertaining to budget and examples of allowable and unallowable costs, see the OJP Financial Guide at www.ojp.usdoj.gov/financialguide/index.htm.

b. Budget Narrative

The Budget Narrative should thoroughly and clearly describe every category of expense listed in the Budget Detail Worksheet. OJP expects proposed budgets to be complete, cost effective, and allowable (e.g., reasonable, allocable, and necessary for project activities).

Applicants should demonstrate in their budget narratives how they will maximize cost effectiveness of grant expenditures. Budget narratives should generally describe cost effectiveness in relation to potential alternatives and the goals of the project. For example, a budget narrative should detail why planned in-person meetings are necessary, or how technology and collaboration with outside organizations could be used to reduce costs, without compromising quality.

The narrative should be mathematically sound and correspond with the information and figures provided in the Budget Detail Worksheet. The narrative should explain how the applicant estimated and calculated all costs, and how they are relevant to the completion of the proposed project. The narrative may include tables for clarification purposes but need not be in a spreadsheet format. As with the Budget Detail Worksheet, the Budget Narrative should be broken down by year.

Cofunding: A grant made by NIJ under this solicitation may account for up to 100 percent of the total cost of the project. The application should indicate whether it is feasible for the applicant to contribute cash, facilities, or services as non-Federal support for the project. The application should identify generally any such contributions that the applicant expects to make and the proposed budget should indicate in detail which items, if any, will be supported with non-Federal contributions.

This solicitation does not require a match. However, if a successful application proposes a voluntary match amount, and OJP approves the budget, the total match amount incorporated into the approved budget becomes mandatory and subject to audit.

5. Indirect Cost Rate Agreement (if applicable)

Indirect costs are allowed only if the applicant has a federally approved indirect cost rate. (This requirement does not apply to units of local government.) Attach a copy of the federally approved indirect cost rate agreement to the application. Applicants that do not have an approved rate may request one through their 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 cost categories. If DOJ is the cognizant federal agency, obtain information needed to submit an indirect cost rate proposal at www.ojp.usdoj.gov/funding/pdfs/indirect_costs.pdf.

6. Tribal Authorizing Resolution (if applicable)

Tribes, tribal organizations, or third parties proposing to provide direct services or assistance to residents on tribal lands should include in their applications a resolution, a

letter, affidavit, or other documentation, as appropriate, that certifies that the applicant has the legal authority from the tribe(s) to implement the proposed project on tribal lands. In those instances when an organization or consortium of tribes applies for a grant on behalf of a tribe or multiple specific tribes, then the application should include appropriate legal documentation, as described above, from all tribes that would receive services/assistance under the grant. A consortium of tribes for which existing consortium bylaws allow action without support from all tribes in the consortium (i.e., without an authorizing resolution or comparable legal documentation from each tribal governing body) may submit, instead, a copy of its consortium bylaws with the application.

7. Additional Attachments

a. Applicant disclosure of pending applications.

Applicants are to disclose whether they have pending applications 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 items outlined in the budget narrative and worksheet in the application under this solicitation. The disclosure should include both direct applications for federal funding (e.g., applications to federal agencies) and indirect applications for such funding (e.g., applications to State agencies that will be subawarding federal funds).

OJP seeks this information to help avoid any inappropriate duplication of funding. Leveraging multiple funding sources in a complementary manner to implement comprehensive programs or projects is encouraged and is not seen as inappropriate duplication.

Applicants that have pending applications as described above are to provide the following information about pending applications submitted within the last 12 months:

- the Federal or State funding agency
- the solicitation name/project name
- the point of contact information at the applicable funding agency

Federal or State Funding Agency	Solicitation Name/Project Name	Name/Phone/E-mail for Point of Contact at Funding Agency
DOJ/COPS	COPS Hiring Program	Jane Doe, 202/000-0000; jane.doe@usdoj.gov
HHS/ Substance Abuse & Mental Health Services Administration	Drug Free Communities Mentoring Program/ North County Youth Mentoring Program	John Doe, 202/000-0000; john.doe@hhs.gov

Applicants should include the table as a separate attachment, with the file name “Disclosure of Pending Applications,” to their application. Applicants that do not have pending applications as described above are to include a statement to this effect in the separate attachment page. (e.g., “[Applicant Name] does not have pending applications submitted within the last 12 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 items outlined in the budget narrative and worksheet in the application under this solicitation.”)

b. Research and Evaluation Independence and Integrity

If a proposal involves research and/or evaluation, regardless of the proposal’s rating under the selection criteria, in order to receive funds, the applicant’s proposal must demonstrate research/evaluation independence, including appropriate safeguards to ensure research/evaluation objectivity and integrity.

For purposes of this solicitation, research and evaluation independence and integrity pertains to ensuring that the design, conduct, or reporting of research/evaluation funded by NIJ grants, cooperative agreements, or contracts will not be biased by any personal or financial conflict of interest on the part of the investigators responsible for the research/evaluation or on the part of the applicant organization. Conflicts can be either actual or apparent. Examples of potential investigator (or other personal) conflict situations may include where an investigator would be in a position to evaluate a spouse’s work product (actual conflict), or where an investigator would be in a position to evaluate the work of a former colleague (apparent conflict). With regard to potential organizational conflicts of interest, as one example, generally an organization could not be given a grant to evaluate a project if that organization had itself provided substantial prior technical assistance to that project, as the organization in such an instance would appear to be evaluating the effectiveness of its own prior work. The key is whether a reasonable person understanding all of the facts would be able to have confidence that the results of any research/evaluation project are objective and reliable. Any outside personal or financial interest that casts doubt on that objectivity and reliability is a problem.

In the appendix dealing with research and evaluation independence and integrity, the applicant should explain the process and procedures that the applicant has put in place to identify and eliminate (or, at the very least, mitigate) potential personal or financial conflicts of interest on the part of its staff, consultants, and/or subrecipients. It should also identify any potential organizational conflicts of interest on the part of the applicant with regard to the proposed research/evaluation. If the applicant reasonably believes that no potential personal or organizational conflicts of interest exist, then the applicant should provide a brief narrative explanation of how and why it reached that conclusion.

Where potential personal or organizational conflicts of interest exist, in the appendix the applicant should identify the safeguards the applicant has or will put in place to eliminate, mitigate, explain, or otherwise address those conflicts of interest.

Considerations in assessing research and evaluation independence and integrity will include, but may not be limited to, the adequacy of the applicant’s efforts to identify

factors that could affect the objectivity/integrity of the proposed staff and/or the organization in carrying out the research, development, or evaluation activity; and the adequacy of the applicant's existing or proposed remedies to control any such factors.

8. Other Standard Forms

Additional forms that OJP may require in connection with an award are available on OJP's funding page at www.ojp.usdoj.gov/funding/forms.htm. For successful applicants, receipt of funds may be contingent upon submission of all necessary forms. Note in particular the following forms:

a. [Standard Assurances](#)*

Applicants must read, certify, and submit this form in GMS prior to the receipt of any award funds.

b. [Certifications Regarding Lobbying; Debarment, Suspension and Other Responsibility Matters; and Drug-Free Workplace Requirements](#)*

Applicants must read, certify, and submit in GMS prior to the receipt of any award funds.

c. [Accounting System and Financial Capability Questionnaire](#)

Any applicant (other than an individual) that is a non-governmental entity and that has not received any award from OJP within the past 3 years, must download, complete, and submit this form.

*These OJP Standard Assurances and Certifications are forms which applicants accept in GMS. They are not additional forms to be uploaded at the time of application submission.

Selection Criteria

Statement of the Problem (Understanding of the problem and its importance)—15%

Project/Program Design and Implementation (Quality and technical merit)—35%

1. Awareness of the state of current research.
2. Soundness of methods and analytic and technical approach.
3. Feasibility of proposed project and awareness of pitfalls.
4. Innovation and creativity (when appropriate).

Capabilities/Competencies (Capabilities, demonstrated productivity, and experience of applicants)—15%

1. Qualifications and experience of proposed staff.
2. Demonstrated ability of proposed staff and organization to manage the effort.
3. Adequacy of the plan to manage the project, including how various tasks are subdivided and resources are used.
4. Successful past performance on NIJ grants and contracts (when applicable).

Budget—5%

NOTE: *The budget should be complete, cost effective, and allowable (e.g., reasonable, allocable, and necessary for project activities.) Budget narratives should generally demonstrate*

*how applicants will maximize cost effectiveness of grant expenditures. Budget narratives should demonstrate cost effectiveness in relation to potential alternatives and the goals of the project.*²

1. Total cost of the project relative to the perceived benefit (cost effectiveness).
2. Appropriateness of the budget relative to the level of effort.
3. Use of existing resources to conserve costs.

Impact/Outcomes and Evaluation (Relevance to policy and practice)—25%

1. Potential for significant advances in scientific or technical understanding of the problem.
2. Potential for significant advances in the field.
3. Relevance for improving the policy and practice of criminal justice and related agencies in the United States and improving public safety, security, and quality of life.
4. Affordability and cost-effectiveness of proposed products, when applicable (e.g., purchase price and maintenance costs for a new technology or cost of training to use the technology).

Relevance of the project for policy and practice in the United States

Higher quality applications clearly explain the practical implications of the project. They connect technical expertise with criminal justice policy and practice. To ensure that the project has strong relevance for policy and practice, some researchers and technologists collaborate with practitioners and policymakers. The application may include letters showing support from practitioners, but they carry less weight than clear evidence of the applicant's understanding of how policymakers and practitioners can best use and benefit from the proposed work. While a partnership may affect State or local activities, it should also have broader implications for other communities nationwide.

Dissemination Strategy—5%

1. Well-defined plan for the grant recipient to disseminate results to appropriate audiences, including researchers, practitioners, and policymakers.
2. Suggestions for print and electronic products that NIJ should consider developing for practitioners and policymakers.
3. If applicable, a clear strategy leading to the adoption into practice of any equipment or software.

Review Process

OJP is committed to ensuring a fair and open process for awarding grants. NIJ reviews the application to make sure that the information presented is reasonable, understandable, measurable, and achievable, as well as consistent with the solicitation.

Peer reviewers will review the applications submitted under this solicitation that meet basic minimum requirements. NIJ may use either internal peer reviewers, external peer reviewers, or a combination, to review the applications under this solicitation. An external peer reviewer is an

² Generally speaking, a reasonable cost is a cost that, in its nature or amount, does not exceed that which would be incurred by a prudent person under the circumstances prevailing at the time the decision was made to incur the costs.

expert in the subject matter of a given solicitation who is NOT a current DOJ employee. An internal reviewer is a current DOJ employee who is well-versed or has expertise in the subject matter of this solicitation. Applications that meet basic minimum requirements will be evaluated, scored, and rated by a peer review panel. Peer reviewers' ratings and any resulting recommendations are advisory only. In addition to peer review ratings, considerations for award recommendations and decisions may include, but are not limited to, underserved populations, geographic diversity, strategic priorities, past performance, and available funding.

The Office of the Chief Financial Officer (OCFO), in consultation with NIJ, reviews applications for potential discretionary awards to evaluate the fiscal integrity and financial capability of applicants, examines proposed costs to determine if the Budget Detail Worksheet and Budget Narrative accurately explain project costs, and determines whether costs are reasonable, necessary, and allowable under applicable federal cost principles and agency regulations.

All final award decisions will be made by the Director of the National Institute of Justice, who may consider factors including, but not limited to, underserved populations, geographic diversity, strategic priorities, past performance, and available funding when making awards.

Additional Requirements

Applicants selected for awards must agree to comply with additional legal requirements upon acceptance of an award. OJP encourages applicants to review the information pertaining to these additional requirements prior to submitting an application. Additional information for each requirement can be found at www.ojp.usdoj.gov/funding/other_requirements.htm.

- Civil Rights Compliance
- Civil Rights Compliance Specific to State Administering Agencies
- Faith-Based and Other Community Organizations
- Confidentiality
- Research and the Protection of Human Subjects
- Anti-Lobbying Act
- Financial and Government Audit Requirements
- National Environmental Policy Act (NEPA)
- DOJ Information Technology Standards (if applicable)
- Single Point of Contact Review
- Non-Supplanting of State or Local Funds
- Criminal Penalty for False Statements

- Compliance with [Office of Justice Programs Financial Guide](#)
- Suspension or Termination of Funding
- Nonprofit Organizations
- For-profit Organizations
- Government Performance and Results Act (GPRA)
- Rights in Intellectual Property
- Federal Funding Accountability and Transparency Act of 2006 (FFATA)
- Awards in Excess of \$5,000,000 – Federal Taxes Certification Requirement
- Policy and Guidance for Conference Approval, Planning, and Reporting
- OJP Training Guiding Principles for Grantees and Subgrantees

If a proposal is funded, the award recipient will be required to submit several reports and other materials, including:

Final substantive report: The final report should be a comprehensive overview of the project and should include a detailed description of the project design, data, and methods; a full presentation of scientific findings, placed in the context of existing literature; a thorough discussion of the implications of the project findings for criminal justice practice and policy in the United States; etc. It must contain an abstract of no more than 600 words and an executive summary of 2,500 to 4,000 words.

A draft of the final report, abstract, and executive summary must be submitted 90 days before the end date of the grant. The draft final report will be peer reviewed upon submission. The reviews will be forwarded to the principal investigator with suggestions for revisions. The author must then submit the revised final report, abstract, and executive summary by the end date of the grant. The abstract, executive summary, and final report must be submitted in electronic format.

Interim reports: Grantees must submit quarterly financial reports, semi-annual progress reports, a final progress report, and, if applicable, an annual audit report in accordance with Office of Management and Budget Circular A-133. Future awards and fund drawdowns may be withheld if reports are delinquent. Semi-annual progress reports will be submitted in the National Science Foundation's Research Performance Progress Report (RPPR) format (www.nsf.gov/bfa/dias/policy/rppr/).

Data sets: NIJ requires submission of all data sets (original, intermediate, and final) produced or collected for the funded project, and any artifact associated with the project data. Included

with the final sets of data should be the plan outlined in the Data Archiving Plan section of the proposal.

How to Apply

Applicants must submit applications through Grants.gov. Applicants must first register with Grants.gov in order to submit an application through Grants.gov, a “one-stop storefront” to find federal funding opportunities and apply for funding. Find complete instructions on how to register and submit an application at www.Grants.gov. Applicants that experience technical difficulties during this process should call the Grants.gov Customer Support Hotline at **800-518-4726** or **606-545-5035**, 24 hours a day, 7 days a week, except federal holidays. Registering with Grants.gov is a one-time process; however, **processing delays may occur, and it can take several weeks** for first-time registrants to receive confirmation and a user password. OJP encourages applicants to **register several weeks before** the application submission deadline. In addition, OJP urges applicants to submit applications 72 hours prior to the application due date to allow time to receive validation messages or rejection notifications from Grants.gov, and to correct in a timely fashion any problems that may have caused a rejection notification.

Note: NIJ encourages all prospective applicants to sign up for Grants.gov email notifications regarding this solicitation. If this solicitation is cancelled or modified, individuals who sign up with Grants.gov for email updates will be notified.

All applicants are required to complete the following steps:

1. **Acquire a Data Universal Numbering System (DUNS) number.** In general, the Office of Management and Budget requires that all applicants (other than individuals) for federal funds include a DUNS number in their applications for a new award or a supplement to an existing award. A DUNS number is a unique nine-digit sequence recognized as the universal standard for identifying and differentiating entities receiving federal funds. The identifier is used for tracking purposes and to validate address and point of contact information for federal assistance applicants, recipients, and subrecipients. The DUNS number will be used throughout the grant life cycle. Obtaining a DUNS number is a free, one-time activity. Call Dun and Bradstreet at 866-705-5711 to obtain a DUNS number or apply online at www.dnb.com. A DUNS number is usually received within 1-2 business days.
2. **Acquire registration with the System for Award Management (SAM). SAM replaces the Central Contractor Registration (CCR) database** as the repository for standard information about federal financial assistance applicants, recipients, and subrecipients. OJP requires all applicants (other than individuals) for federal financial assistance to maintain current registrations in the SAM database. Applicants must be registered in SAM to successfully register in Grants.gov. (Previously, organizations that had submitted applications via Grants.gov were registered with CCR, as it was a requirement for Grants.gov registration. SAM registration replaces CCR as a pre-requisite for Grants.gov registration.) Applicants must **update or renew their SAM registration annually** to maintain an active status.

Applicants that were previously registered in the CCR database must, at a minimum:

- Create a SAM account;

- Log in to SAM and migrate permissions to the SAM account (all the entity registrations and records should already have been migrated).

Applicants that were not previously registered in the CCR database must register in SAM prior to registering in Grants.gov. Information about SAM registration procedures can be accessed at www.sam.gov.

3. **Acquire an Authorized Organization Representative (AOR) and a Grants.gov username and password.** Complete the AOR profile on Grants.gov and create a username and password. The applicant organization's DUNS number must be used to complete this step. For more information about the registration process, go to www.grants.gov/applicants/get_registered.jsp.
4. **Acquire confirmation for the AOR from the E-Business Point of Contact (E-Biz POC).** The E-Biz POC at the applicant organization must log into Grants.gov to confirm the applicant organization's AOR. Note that an organization can have more than one AOR.
5. **Search for the funding opportunity on Grants.gov.** Use the following identifying information when searching for the funding opportunity on Grants.gov. The Catalog of Federal Domestic Assistance (CFDA) number for this solicitation is 16.560, titled "National Institute of Justice Research, Evaluation, and Development Project Grants," and the funding opportunity number is NIJ-2013-3385.
6. **Complete the Disclosure of Lobbying Activities.** All applicants must complete this information. Applicants that expend any funds for lobbying activities must provide the detailed information requested on the form, *Disclosure of Lobbying Activities* (SF-LLL). Applicants that do not expend any funds for lobbying activities should enter "N/A" in the required highlighted fields.
7. **Submit an application consistent with this solicitation by following the directions in Grants.gov.** Within 24–48 hours after submitting the electronic application, the applicant should receive an e-mail validation message from Grants.gov. The message will state whether the application has been received and validated, or rejected due to errors, with an explanation. **Important:** OJP urges applicants to submit applications **at least 72 hours prior** of the application due date to allow time to receive validation messages or rejection notifications from Grants.gov, and to correct in a timely fashion any problems that may have caused a rejection notification.

Note: Grants.gov only permits the use of specific characters in names of attachment files. Valid file names may only include the following characters: A-Z, a-z, 0-9, underscore (_), hyphen (-), space, and period. Grants.gov will forward the application to OJP's Grants Management System (GMS). GMS does not accept executable file types as application attachments. These disallowed file types include, but are not limited to, the following extensions: ".com," ".bat," ".exe," ".vbs," ".cfg," ".dat," ".db," ".dbf," ".dll," ".ini," ".log," ".ora," ".sys," and ".zip."

Note: Duplicate Applications

If an applicant submits multiple versions of an application, NIJ will review the most recent version submitted.

Experiencing Unforeseen Grants.gov Technical Issues

Applicants that experience unforeseen Grants.gov technical issues beyond their control that prevent them from submitting their application by the deadline must e-mail the NIJ contact identified in the Contact Information section on the title page **within 24 hours after the application deadline** and request approval to submit their application. The e-mail must describe the technical difficulties, and include a timeline of the applicant's submission efforts, the complete grant application, the applicant's DUNS number, and any Grants.gov Help Desk or SAM tracking number(s). **Note: NIJ does not automatically approve requests.** After the program office reviews the submission, and contacts the Grants.gov or SAM Help Desks to validate the reported technical issues, OJP will inform the applicant whether the request to submit a late application has been approved or denied. If the technical issues reported cannot be validated, OJP will reject the application as untimely.

The following conditions are not valid reasons to permit late submissions: (1) failure to register in sufficient time, (2) failure to follow Grants.gov instructions on how to register and apply as posted on its Web site, (3) failure to follow each instruction in the OJP solicitation, and (4) technical issues with the applicant's computer or information technology environment, including firewalls.

Notifications regarding known technical problems with Grants.gov, if any, are posted at the top of the OJP funding Web page at www.ojp.usdoj.gov/funding/solicitations.htm.

Provide Feedback to OJP on This Solicitation

To assist OJP in improving its application and award processes, we encourage applicants to provide feedback on this solicitation, the application submission process, and/or the application review/peer review process. Feedback may be provided to OJPSolicitationFeedback@usdoj.gov.

IMPORTANT: This email is for feedback and suggestions only. Replies are **not** sent from this mailbox. If you have specific questions on any program or technical aspect of the solicitation, **you must** directly contact the appropriate number or email listed on the front of this solicitation document. These contacts are provided to help ensure that you can directly reach an individual who can address your specific questions in a timely manner.

If you are interested in being a reviewer for other OJP grant applications, please email your resume to ojppeerreview@lmbps.com. The OJP Solicitation Feedback email account will not forward your resume. **Note:** Neither you nor anyone else from your organization can be a peer reviewer in a competition in which you or your organization has submitted an application.

Application Checklist

Evaluating the Efficacy of Lighting, Markings, and Paint Schemes in Reducing the Incidence of Law Enforcement Vehicle Crashes

This application checklist has been created to assist in developing an application.

What an Application Should Include:

- _____ Application for Federal Assistance (SF-424) (see page 11)
- _____ Abstract (see page 11)
- _____ Program Narrative (see page 13)
- _____ Appendices to the Program Narrative: (see page 14)
 - _____ Bibliography/references.
 - _____ Any tools/instruments, questionnaires, tables/charts/graphs, or maps pertaining to the proposed study.
 - _____ Curriculum vitae, resumes or biographical sketches of key personnel
 - _____ Project timeline and research calendar with expected milestones.
 - _____ Research independence and integrity (see "Additional Attachments").
 - _____ Human Subjects Protection Paperwork including Institutional Review Board (IRB) documentation and forms (see www.ojp.gov/nij/funding/humansubjects/human-subjects.htm).
 - _____ Privacy Certificate (for further guidance go to www.ojp.gov/nij/funding/humansubjects/privacy-certificate-guidance.htm).
 - _____ List of previous and current NIJ awards to applicant organization and investigator(s).
 - _____ Letters of cooperation/support or administrative agreements from organizations collaborating in the project, such as law enforcement and correctional agencies (if applicable).
 - _____ List of other agencies, organizations, or funding sources to which this proposal has been submitted (if applicable).
 - _____ Other materials specified by the solicitation.
- _____ Budget Detail Worksheet (see page 14)
- _____ Budget Narrative (see page 14)
- _____ Disclosure of Lobbying Activities (SF-LLL) (see page 23)
- _____ Indirect Cost Rate Agreement (if applicable) (see page 15)
- _____ Tribal Authorizing Resolution (if applicable) (see page 15)
- _____ Additional Attachments (see page 16)
 - _____ Disclosure of Pending Applications
 - _____ Research and Evaluation Independence and Integrity
- _____ Other Standard Forms as applicable (see page 18), including:
 - _____ Accounting System and Financial Capability Questionnaire (if applicable)