

3810 - Town of Blacksburg Community Flood Preparedness Fund Study Grant Application - Watershed Study

Application Details

Funding Opportunity:

3294-Virginia Community Flood Preparedness Fund - Study Grants - CY25 Round 6

Funding Opportunity Due Date: Dec 1, 2025 11:59 PM

Program Area: Virginia Community Flood Preparedness Fund

Status: Under Review

Stage: Final Application

Initial Submit Date: Dec 1, 2025 7:21 PM

Initially Submitted By: Kafi Howard

Last Submit Date:

Last Submitted By:

Contact Information

Primary Contact Information

Active User*: Yes

Type: External User

Name*: Ms. Kafi Howard
Salutation First Name Middle Name Last Name

Title: Town Engineer

Email*: khoward@blacksburg.gov

Address*: 400 S Main Street

Blacksburg (in Montgomery County) Virginia 24060
City State/Province Postal Code/Zip

Phone*: 540-443-1354 Ext.
Phone

###-###-####

Fax: ###-###-####

Comments:

Organization Information

Status*: Approved

Name*: Town of Blacksburg

Organization Type*: Local Government

Tax ID*:

Unique Entity Identifier (UEI)*:

Organization Website: <https://www.blacksburg.gov/>

Address*: 615 Patrick Henry Dr.

Phone*: Blacksburg Virginia 24060
City State/Province Postal Code/Zip
540-443-1100 Ext.
###-###-####

Fax: ###-###-####

Benefactor:

Vendor ID:

Comments:

VCFPF Applicant Information

Project Description

Name of Local Government*: Town of Blacksburg

Your locality's CID number can be found at the following link: [Community Status Book Report](#)

NFIP/DCR Community 510100

Identification Number (CID)*:

If a state or federally recognized Indian tribe,

Name of Tribe:

Authorized Individual*: Marc Verniel
First Name Last Name

Mailing Address*: 300 South Main Street
Address Line 1
PO Box 90003
Address Line 2

Blacksburg Virginia 24062-9003
City State Zip Code

Telephone Number*: 540-443-1500
Cell Phone Number*: 540-449-6272
Email*: mverniel@blacksburg.gov

Is the contact person different than the authorized individual?

Contact Person*: Yes

Contact: Carolyn Howard
First Name Last Name
400 S Main Street
Address Line 1
PO Box 90003
Address Line 2
Blacksburg Virginia 24062-9003
City State Zip Code

Telephone Number: 540-443-1351

Cell Phone Number: 540-558-8961

Email Address: Cahoward@blacksburg.gov

Enter a description of the project for which you are applying to this funding opportunity

Project Description*:

The recurrence of higher intensity storms in recent years has stressed the stormwater conveyance systems throughout the town causing more frequent urbanized and riverine flooding detrimental to private property and critical infrastructure. The town is proposing to complete a town-wide Watershed Study to identify specific improvements to the drainage system of sewer, channels, and streams to alleviate recurrent pluvial and fluvial flooding and improve water quality.

Low-income geographic area means any locality, or community within a locality, that has a median household income that is not greater than 80 percent of the local median household income, or any area in the Commonwealth designated as a qualified opportunity zone by the U.S. Secretary of the Treasury via his delegation of authority to the Internal Revenue Service. A project of any size within a low-income geographic area will be considered.

Is the proposal in this application intended to benefit a low-income geographic area as defined above?

Benefit a low-income geographic area*: Yes

Information regarding your census block(s) can be found at census.gov

Census Block(s) Where Project will Occur*: C51121

Is Project Located in an NFIP Participating Community*: Yes

Is Project Located in a Special Flood Hazard Area*: No

Flood Zone(s) (if applicable):

Flood Insurance Rate Map

Number(s)

(if applicable):

Eligibility - Round 4

Eligibility

Is the applicant a local government (including counties, cities, towns, municipal corporations, authorities, districts, commissions, or political subdivisions created by the General Assembly or pursuant to the Constitution or laws of the Commonwealth, or any combination of these)?

Local Government*: Yes
Yes - Eligible for consideration
No - Not eligible for consideration

If the applicant is not a town, city, or county, are letters of support from all affected local governments included in this application?

Letters of Support*: N/A
Yes - Eligible for consideration
No - Not eligible for consideration

Has this or any portion of this project been included in any application or program previously funded by the Department?

Previously Funded*: No
Yes - Not eligible for consideration
No - Eligible for consideration

Has the applicant provided evidence of an ability to provide the required matching funds?

Evidence of Match Funds*: Yes
Yes - Eligible for consideration
No - Not eligible for consideration
N/A - Match not required

Scope of Work - Studies - Round 4

Scope of Work

Upload your Scope of Work

Please refer to Part IV, Section B. of the grant manual for guidance on how to create your scope of work

Scope of Work*: CID510100_TownofBlacksburg_CFPF-2-Scope of Work.pdf

Comments:

Budget Narrative

Budget Narrative Attachment*: CID510100_TownofBlacksburg_CFPF-2-Appendix B.pdf

Comments:

Scoring Criteria for Studies - Round 4

Scoring

Revising floodplain ordinances to maintain compliance with the NFIP or to incorporate higher standards that may reduce the risk of flood damage. This must include establishing processes for implementing the ordinance, including but not limited to, permitting, record retention, violations, and variances. This may include revising a floodplain ordinance when the community is getting new Flood Insurance Rate Maps (FIRMs), updating a floodplain ordinance to include floodplain setbacks or freeboard, or correcting issues identified in a Corrective Action Plan.

Revising Floodplain Ordinances*: No
Select

Creating tools or applications to identify, aggregate, or display information on flood risk or creating a crowd-sourced mapping platform that gathers data points about real-time flooding. This could include a locally or regionally based web-based mapping product that allows local residents to better understand their flood risk.

Mapping Platform*: No
Select

Conducting hydrologic and hydraulic studies of floodplains. Applicants who create new maps must apply for a Letter of Map Revision or a Physical Map Revision through the Federal Emergency Management Agency (FEMA).

Hydrologic and Hydraulic Studies*: No
Select

Funding of studies of statewide and regional significance and proposals will be considered for the studies listed below - Up to 45 points

Studies and Data Collection of Statewide and Regional Significance Scoring:

Updating precipitation data and IDF information (rain intensity, duration, frequency estimates) including such data at a sub-state or regional scale on a periodic basis. (45)

Regional relative sea level rise projections for use in determining future impacts. (45)

Vulnerability analysis either statewide or regionally to state transportation, water supply, water treatment, impounding structures, or other significant and vital infrastructure from flooding. (45)

Flash flood studies and modeling in riverine regions of the state. (45)

Statewide or regional stream gauge monitoring to include expansion of existing gauge networks. (45)

New or updated delineations of areas of recurrent flooding, stormwater flooding, and storm surge vulnerability in coastal areas that include projections for future conditions based on sea level rise, more intense rainfall events, or other relevant flood risk factors. (45)

Regional flood studies in riverine communities that may include watershed scale evaluation, updated estimates of rainfall intensity, or other information. (45)

Regional hydrologic and hydraulic studies of floodplains. (45)

Studies of potential land use strategies that could be implemented by a local government to reduce or mitigate damage from coastal or riverine flooding. (40)

Other proposals that will significantly improve protection from flooding on a statewide or regional basis (35)

Studies and Data Collection of Statewide and Regional Significance*: Flash flood studies and modeling in riverine regions of the state

Is the project area socially vulnerable? (based on ADAPT Virginia's Social Vulnerability Index Score)

Social Vulnerability Scoring:

Very High Social Vulnerability (More than 1.5)

High Social Vulnerability (1.0 to 1.5)

Moderate Social Vulnerability (0.0 to 1.0)

Low Social Vulnerability (-1.0 to 0.0)

Very Low Social Vulnerability (Less than -1.0)

Socially Vulnerable*: Very High Social Vulnerability

Is the proposed project part of an effort to join or remedy the community's probation or suspension from the NFIP?

NFIP*: No

Is the proposed project in a low-income geographic area as defined below?

"Low-income geographic area" means any locality, or community within a locality, that has a median household income that is not greater than 80 percent of the local median household income, or any area in the Commonwealth designated as a qualified opportunity zone by the U.S. Secretary of the Treasury via his delegation of authority to the Internal Revenue Service. A project of any size within a low-income geographic area will be considered.

Low-Income Geographic Area*: Yes

Projects eligible for funding may also reduce nutrient and sediment pollution to local waters and the Chesapeake Bay and assist the Commonwealth in achieving local and/or Chesapeake Bay TMDLs.

Does the proposed project include implementation of one or more best management practices with a nitrogen, phosphorus, or sediment reduction efficiency established by the Virginia Department of Environmental Quality or the Chesapeake Bay Program Partnership in support of the Chesapeake Bay TMDL Phase III Watershed Implementation Plan?

Reduction of Nutrient and Sediment Pollution*: Yes

Comments:

The Watershed Study will also recommend water quality improvements to help address our assigned wasteload allocations for bacteria (Cedar Run) and sediment (Cedar Run and Stroubles Creek), and the Toms Creek impairment for temperature.

Scope of Work Supporting Information - Studies

Scope of Work Supporting Information

Is the proposed study a new study or updates on a prior study?

New or Updated Study*: New Study

Describe the relationship of the study to the local government's needs for flood prevention and protection, equity, community improvement, identification of nature-based solutions or other priorities contained in this manual

Relationship of Study to Priorities Contained in this Manual*:

The town is proposing to complete a town-wide Watershed Study to identify specific improvements to the drainage system of sewer, channels, and streams to alleviate recurrent pluvial and fluvial flooding and improve water quality. Although the study is intended to be town-wide, there are three primary areas within the town that have high risk flooding factors due to the impact on road access and structure location: Downtown, Webb Street, and Toms Creek Road.

The town plans to implement flood improvement projects in areas that are subject to recurrent flooding as confirmed by Kafi Howard, the local certified floodplain manager. Flood and drainage improvement projects under consideration include stream restoration, floodplain reconnection to adjacent waterways, urban channel widening, and stormwater detention / water quality facilities. The goal for these projects is to reduce the hazard level of flooding at critical locations within town, including those listed above. Implementation of stream restoration, floodplain reconnection and stormwater quality facilities will also aid in protecting natural resources and respond to local Total Maximum Daily Load (TMDL) requirements by reducing sediment transport and temperature within the waterways.

Describe the qualifications of the individuals or organizations charged with conducting the study or the elements of any request for proposal that define those qualifications

Qualifications of Individuals

Conducting Study*:

The town will contract with AECOM to complete the study. Refer to the attached

"CID510100_TownofBlacksburg_CFPF-2-AECOM resumes"

Describe the expected use of the study results in the context of the local resilience plan or, in the case of regional plans, how the study improves any regional approach

Expected use of Study Results*:

The results of the Watershed Study will be incorporated into the Town's Flood Resilience Plan, which the town is submitting a separate Community Flood Preparedness Fund (CFPF) grant application, and inform capital improvement planning for the next 5 to 15 years.

If applicable, describe how the study may improve Virginia's flood protection and prevention abilities in a statewide context (type N/A if not applicable)

Statewide Improvements*:

N/A

Provide a list of repetitive and/or severe repetitive loss properties. Do not provide the addresses for the properties, but include an exact number of repetitive and/or severe repetitive loss structures within the project area

Repetitive Loss and/or Severe

Repetitive Loss Properties*:

CID510100_TownofBlacksburg_CFPF-2-Section 8 -Repetitive Loss Properties.pdf

Describe the residential and commercial structures impacted by this project, including how they contribute to the community such as historic, economic, or social value. Provide an exact number of these structures in the project area

Residential and/or Commercial Structures*:

Refer to the attachment-CID510100_TownofBlacksburg_CFPF-2-Section 8 -Repetitive Loss Properties.

If there are critical facilities/infrastructure within the project area, describe each facility

Critical Facilities/Infrastructure*:

Refer to the attachment-CID510100_TownofBlacksburg_CFPF-2-Section 8 -Repetitive Loss Properties

Budget

Budget Summary

Grant Matching Requirement*:

LOW INCOME - Flood Prevention and Protection Studies - Fund 90%/Match 10%

Is a match waiver being requested?

Match Waiver Request No

Note: Only low-income communities are eligible for a match waiver

*:

I certify that my project is in a low-income geographic area: Yes

Total Project Amount (Request + \$457,104.90

Match)*: **This amount should equal the sum of your request and match figures

REQUIRED Match Percentage \$45,710.49

Amount:

BUDGET TOTALS

Before submitting your application be sure that you meet the match requirements for your project type.

Match Percentage:

10.00%

Verify that your match percentage matches your required match percentage amount above.

Total Requested Fund Amount: \$411,394.41

Total Match Amount: \$45,710.49

TOTAL: \$457,104.90

Personnel

| Description | Requested Fund Amount | Match Amount Match Source |
|--------------------|------------------------------|----------------------------------|
| No Data for Table | | |

Fringe Benefits

| Description | Requested Fund Amount | Match Amount Match Source |
|--------------------|------------------------------|----------------------------------|
| No Data for Table | | |

Travel

| Description | Requested Fund Amount | Match Amount Match Source |
|--------------------|------------------------------|----------------------------------|
| No Data for Table | | |

Equipment

| Description | Requested Fund Amount | Match Amount Match Source |
|--------------------|------------------------------|----------------------------------|
| No Data for Table | | |

Supplies

| Description | Requested Fund Amount | Match Amount Match Source |
|--------------------|------------------------------|----------------------------------|
| No Data for Table | | |

Construction

| Description | Requested Fund Amount | Match Amount Match Source |
|--------------------|------------------------------|----------------------------------|
| No Data for Table | | |

Contracts

| Description | Requested Fund Amount | Match Amount | Match Source |
|----------------|-----------------------|--------------------|--------------|
| AECOM Contract | \$411,394.41 | \$45,710.49 | Local Funds |
| | \$411,394.41 | \$45,710.49 | |

Pre-Award and Startup Costs

| Description | Requested Fund Amount | Match Amount | Match Source |
|-------------------|-----------------------|--------------|--------------|
| No Data for Table | | | |

Other Direct Costs

| Description | Requested Fund Amount | Match Amount | Match Source |
|-------------------|-----------------------|--------------|--------------|
| No Data for Table | | | |

Supporting Documentation

Supporting Documentation

| Named Attachment | Required Description | File Name | Type | Size | Upload Date |
|---|--|---|------|-------|---------------------|
| Detailed map of the project area(s) (Projects/Studies) | Refer to PDF page 1 - town-wide study. | CID510100_TownofBlacksburg_CFPF-2-Section 5.pdf | pdf | 1 MB | 12/01/2025 06:58 PM |
| FIRMette of the project area(s) (Projects/Studies) | Refer to PDF page 2. | CID510100_TownofBlacksburg_CFPF-2-Section 5.pdf | pdf | 1 MB | 12/01/2025 06:58 PM |
| Historic flood damage data and/or images (Projects/Studies) | Refer to PDF pages 2- 5. | CID510100_TownofBlacksburg_CFPF-2-Section 5.pdf | pdf | 1 MB | 12/01/2025 06:58 PM |
| A link to or a copy of the current floodplain ordinance | Refer to PDF page 2. | CID510100_TownofBlacksburg_CFPF-2-Section 5.pdf | pdf | 1 MB | 12/01/2025 06:59 PM |
| Maintenance and management plan for project | Not applicable to this study. | Not Applicable.pdf | pdf | 30 KB | 12/01/2025 06:59 PM |
| A link to or a copy of the current hazard mitigation plan | Refer to PDF page 2. | CID510100_TownofBlacksburg_CFPF-2-Section 5.pdf | pdf | 1 MB | 12/01/2025 07:00 PM |
| A link to or a copy of the current comprehensive plan | Refer to PDF page 2. | CID510100_TownofBlacksburg_CFPF-2-Section 5.pdf | pdf | 1 MB | 12/01/2025 07:00 PM |
| Social vulnerability index score(s) for the project area | Refer to PDF page 6. | CID510100_TownofBlacksburg_CFPF-2-Section 5.pdf | pdf | 1 MB | 12/01/2025 07:01 PM |

| Named Attachment | Required Description | File Name | Type | Size | Upload |
|---|-------------------------------|---|------|-------|---------------------|
| | | | | | Date |
| Authorization to request funding from the Fund from governing body or chief executive of the local government | Town manager letter | CID510100_TownofBlacksburg_CFPF-2-Manager Ltr.pdf | pdf | 1 MB | 12/01/2025 07:06 PM |
| Signed pledge agreement from each contributing organization | Not applicable | Not Applicable.pdf | pdf | 30 KB | 12/01/2025 07:06 PM |
| Maintenance Plan | Not applicable to this study. | Not Applicable.pdf | pdf | 30 KB | 12/01/2025 07:07 PM |

Benefit-cost analysis must be submitted with project applications over \$2,000,000. in lieu of using the FEMA benefit-cost analysis tool, applicants may submit a narrative to describe in detail the cost benefits and value. The narrative must explicitly indicate the risk reduction benefits of a flood mitigation project and compares those benefits to its cost-effectiveness.

Benefit Cost Analysis

Other Relevant

Attachments

Letters of Support

| Description | File Name | Type | Size | Upload Date |
|--|---|------|--------|---------------------|
| AECOM Proposal | CID510100_TownofBlacksburg_CFPF-2-AECOM Proposal - Watershed Study 112425.pdf | pdf | 1 MB | 12/01/2025 07:10 PM |
| AECOM Resumes | CID510100_TownofBlacksburg_CFPF-2-AECOM resumes.pdf | pdf | 120 KB | 12/01/2025 07:12 PM |
| Appendix A | CID510100_TownofBlacksburg_CFPF-2-Appendix A - Study.pdf | pdf | 1 MB | 12/01/2025 07:09 PM |
| Appendix B | CID510100_TownofBlacksburg_CFPF-2-Appendix B.pdf | pdf | 189 KB | 12/01/2025 07:09 PM |
| Webb Street Drainage Improvements Technical Memo | CID510100_TownofBlacksburg_CFPF-2-Webb Street Tech Memo 11-4-2025.pdf | pdf | 17 MB | 12/01/2025 07:15 PM |