

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 Middle Name Howard
Salutation First 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.

Blacksburg Virginia 24060
City State/Province Postal Code/Zip

Phone*: 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 (More)

Moderate Social Vulnerability (0.0 to 1.0)

Low Social Vulnerability (-1.0 to 0.0)

Very Low Social Vulnerability (Less than 1.0)

Very Low Social Vulnerability (less than 10%)

¹⁰ In the United States, very high social networking is associated with the NEPS.

Is the proposed project part of an overall NEPA?

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

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	Upload
			Type Size 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