

**West Virginia University Health Sciences Center
Visual Sciences Center of Biomedical Research Excellence
Pilot Project Program**

Visual Sciences Center of Biomedical Research Excellence (VS-CoBRE) Pilot Grant
Award Competition Funding Opportunity Announcement

Overview Information

Participating Organization(s): National Institutes of Health (NIH), West Virginia University (WVU) Health Sciences Center

Components of Participating Organizations: National Institute of General Medical Sciences (NIGMS), VS-CoBRE at WVU

Funding Opportunity Title: Pilot Projects focused on Visual Science
Activity Code P20 Pilot Research Project

Announcement Type: Pilot grants for VS-CoBRE

Amount of Award: Up to \$75,000, and the awardee may apply for competitive renewal for one additional year of funding.

Funding Opportunity Purpose: The purpose of this funding opportunity announcement (FOA) is to support basic and translational pilot projects focused on visual sciences, which utilize the Visual Function and Morphology (VFM) Core, enable acquisition of preliminary data for a federal grant application, and cultivate a team of new investigators as potential project leads (PLs) for our Center of Biomedical Research Excellence.

KEY DATES

Posted Date(s): September 20, 2024

Open Date (Earliest Submission Date): September 20, 2024

Letter of Intent due date: October 11, 2024

Application Due Date(s): November 4, 2024

Earliest Start Date: February 1, 2025

Award End Date: January 31, 2026

Summary:

The Visual Sciences Center of Biomedical Research Excellence (VS-CoBRE) expects to support up to two Pilot Projects of up to \$75,000 in direct costs each for one year.

Applications will be reviewed for alignment to the VS-COBRE goals, scientific rigor and impact, and feasibility based on the budget and the scope of work specifically covered by that support.

Applications must describe a pilot research project that aligns with the scientific theme of the VS-CoBRE and will provide preliminary data for a substantial extramural research project grant application. Preference will be given to projects that utilize the Visual Function and Morphology (VFM) Core at WVU. This competition is open to all full-time, tenure- or clinical-track, or tenured faculty at WVU (see specifics on Eligibility below). Priority will be given to junior investigators.

Eligibility: Clinical faculty or basic science, tenured or tenure-track, full-time faculty members who have not had an R01 or equivalent funding are eligible. New or Early-Stage (Junior) investigators are strongly encouraged to apply. Please see the eligibility criteria here: <https://grants.nih.gov/grants/guide/pa-files/PAR-19-313.html>

Individuals currently receiving support from the VS-CoBRE as Project Leaders, Mentoring faculty, or Core facility directors or managers may not serve as Pilot Project PIs. Investigators receiving significant support from an IDeA Networks of Biomedical Research Excellence (INBRE) program or a Clinical and Translational Research (CTR) program are not eligible to apply. Investigators cannot receive research support from multiple CoBREs simultaneously.

Project areas that fall within the scientific focus of the VS-CoBRE will advance our understanding of processes that maintain our vision and disorders leading to visual impairment, including diseases that disproportionately affect the population of West Virginia such as age-related visual disorders, glaucoma, retinal degenerative diseases, and diabetic retinopathy.

Criteria for evaluation of CoBRE applications: The primary criteria for NIH grant review may be found at:

https://grants.nih.gov/grants/peer/guidelines_general/Review_Criteria_at_a_glance.pdf

Additional CoBRE-specific review criteria include:

- Likelihood of the project becoming competitive for R01-level funding from any extramural agency
- Likelihood of producing a publishable result in a timely manner
- Relevance to the VS-CoBRE theme

- A clear, detailed plan for utilization of the VFM Core (see accompanying slides for a list of capabilities present in the VFM Core)
- Background, experience, and career status of the applicant
- Track record of past research, research grant applications, and any research funding
- Identification of an appropriate research team to ensure success

General Terms and Conditions of VS-CoBRE Pilot Project Awards:

1. PI or Co-I salary cannot be supported. Funds may be used for consumable supplies, core facility user fees, services, or small laboratory hardware, but not for equipment (i.e., items costing > \$5000).
2. Personnel costs for technical support are allowable, but preference will be given to applications that name specific individuals who are assured to be on-site and eligible to work at the beginning of the funding period. Postdoctoral support will be considered only under special circumstances.
3. Travel costs are limited to essential research-related travel, such as collaborative project support, but not scientific meeting attendance.
4. Investigators receiving CoBRE pilot project support are REQUIRED to participate in the weekly visual sciences-focused research meetings, the Annual Visual Sciences Retreat, and the Regional Eye Conference. Pilot project leaders are encouraged to participate in the Vision Seminar Series, Ophthalmology Grand Rounds, and other activities organized or sponsored by the VS-CoBRE.
5. Pilot project leaders will actively participate in the mentoring program and periodic assessments established by the VS-CoBRE.
6. A semi-annual progress report (~1 page in length, including publications, presentations, and grant applications submitted or awarded) is required from each CoBRE Pilot Project Leader.
7. PI agrees to submit grant applications that are based on results obtained from the Pilot Project research supported through the VS-CoBRE.
8. Term and budget adjustments: The CoBRE Director reserves the right to make term and budget adjustments in accordance with the intent of the VS-CoBRE program and NIH policies concerning scientific overlap of projects.
9. Unanticipated new requirements. By accepting CoBRE funds, awardees agree to comply with all requirements not already mentioned that may be imposed on the VS-CoBRE by NIH or other institutional authorities during the course of the funding.

To Apply:

Step 1 – Submit a brief Letter of Intent (LOI).

1. Explain, in 300 words or fewer, the proposed research and how specifically it relates to the scientific theme of the VS-CoBRE. Projects aligned with the VS-CoBRE will advance our understanding of processes that maintain our vision and disorders leading to visual impairment, including diseases that disproportionately affect the population of West Virginia such as age-related visual disorders, glaucoma, retinal degenerative diseases, and diabetic retinopathy. If applicable, explain how the project will utilize the VFM Core.

2. Include an up-to-date NIH Biosketch in the most recent format:
<https://grants.nih.gov/grants/forms/biosketch.htm>.

3. Include Other Support information. Use the format shown in the sample page from <https://grants.nih.gov/grants/funding/2590/2590.htm> (see “other support format page: example”)

List all current research support from all sources. For each source listed, provide the name of the funding source, the title of project, if applicable, project start and end dates, and the amount of direct costs available (give the amount available to you if a multi-investigator grant), and your effort in person months.

For pending applications, please include the expected decision date. If you are a recently hired faculty member and are still being supported by a startup package, please report amount initially provided, current unspent balance, and expiration date.

Compile the Letter of Intent, NIH formatted Biosketch, and Other Support information into a **single PDF** document for submission. **Submit your Letter of Intent package by 5 PM on October 11, 2024, to Caitlin Cather (ccather1@hsc.wvu.edu)**

Step 2 – Upon invitation, prepare and submit a complete Pilot Project application.

The Application should include the following components:

- Project Summary (30-line abstract)
- A list of key/senior personnel and their role on the project
- Facilities and Resources: include major equipment available to project, and a paragraph on planned use of the VFM Core.
- Updated Biosketch in NIH format. Include Biosketches of key personnel and other significant contributors
- Detailed budget and budget justification (use NIH budget form)
- Research Plan (Use Continuation Format Page) should have the following components
 - Specific aims: limit to 2 specific aims. (1 page)
 - Research Strategy (3 pages maximum)
 - Background and Significance
 - Innovation
 - Preliminary data (if any; not required)
 - Approach
 - Experimental design
 - Anticipated Results, data analysis,
 - Alternative approaches
 - Please note NIH’s emphasis on “scientific rigor and reproducibility” (<https://grants.nih.gov/reproducibility/index.htm>).
 - Research plan should explain how the proposed aims will support a future application for an NIH, NSF (or equivalent) research project grant.
 - Bibliography (short, less than 35 references)

Follow formatting guidance for NIH grants (generally, Arial 11-point font, 0.5” page margins). Smaller font is acceptable for figure legends if legible at 100% scale. All figures and lettering must be large enough to be clearly legible at 100% scale.

If your research involves vertebrate animals, you must have IACUC approval or have submitted an appropriate animal protocol for review. Complete the Vertebrate Animal Section.

If your research involves human subjects, you must have IRB approval or have submitted an appropriate IRB protocol for review. Complete the Human Subjects Section.

Please compile your application into a **single PDF** document. **Submit your complete application package before 5 PM on November 4, 2024, to Caitlin Cather (ccather1@hsc.wvu.edu).**

Review Process

- All applications will be sent to three referees, who will evaluate proposals for scientific merit and for the potential that the work will lead to a competitive NIH proposal. Consideration of the scope of work proposed within the allowable budget will be rigorously considered.
- Reviewers will be asked to assign priority scores and provide NIH-style reviews.
- After receipt of written reviews, Dr. Ramamurthy and the Internal Advisory Committee will identify the most meritorious projects that also align with the thematic work in the VS-CoBRE and the use of the VFM Core.
- The identified projects will then be sent to the External Advisory Committee (EAC), where scientific merit will be reviewed.
- Once complete, all reviews, EAC recommendations and copies of relevant compliance approvals (see below) will be submitted to NIGMS for programmatic and administrative review for approval of the final project selection.

Compliance Approvals. If selected for funding, applicants must document IACUC, IBC and/or IRB approval of their proposed research and demonstrate compliance with other regulatory guidelines, e.g., lab safety, biohazards, occupational health, etc. This process is to ensure compliance with federal regulations.