


[CONTACT US](#)
[DONATE](#)

[About
Glaucoma](#)
[Research
Center](#)
[Cure Now
Society](#)
[Get
Involved](#)
[News
About
TGF](#)
[Events
Art
Challenge](#)
[Donate](#)


Grant Applications & Information

Click the tabs below for our latest applications and information on our grant programs.

[Exfoliation Syndrome, Exfoliation Glaucoma and Intraocular Pressure-Independent Mechanisms of Optic Nerve Degeneration in Glaucoma](#)

[Forecasting Glaucoma Disease Progression with Artificial Intelligence](#)

MAJOR GAPS IN GLAUCOMA CARE: We currently have no way to *forecast* glaucoma disease progression or make predictions about whether patients will require incisional surgery or be blinded by glaucoma. Also, decisions about target IOP are arbitrary and based on clinical consideration of patient age, amount of baseline damage, and baseline IOP.

The Glaucoma Foundation (TGF) is requesting applications that address these gaps using artificial intelligence strategies. Successful applications will be supported at the level of up to \$250,000 USD over a two-year period. No indirect funds are allowed. TGF wants to focus on applications that forecast outcomes rather than provide alternative monitoring strategies. Also, while a great deal of interest has been placed on using AI to use images to predict a surrogate outcome, a successful application is one that will forecast an outcome and ultimately impact patient care. The research team must be willing to share the algorithm freely. This would not involve sharing individual-level patient data. The most competitive application will be one that

May 26, 2022

Doctor, I Have a Question. What is the Role of MIGS Procedures in a Doctor's Arsenal of Treatment Options?

~Doctor, I Have a Question. If I have heart disease or problems with my blood vessels, should I be worried about my risk for glaucoma?~ Question answered by: Glaucoma is a common eye disease affecting millions of persons worldwide, and today it is the leading cause of irreversible blindness in African Americans. The risk for ... Continue reading

[Read More »](#)

[SEE ALL NEWS](#)



THE GLAUCOMA FOUNDATION
OUR VISION-YOUR SIGHT

lead to a randomized clinical trial of AI-guided versus usual care management of glaucoma, although that will not be the objective of this RFA.

DELIVERABLE: The application should define an algorithm that will forecast a clinically relevant glaucoma outcome over a specified time period. Algorithms directed at longer forecasts will be given higher priority. Algorithms that do not require interim data inputs are desirable as such algorithms are truly providing a long-range forecast.

OVERALL APPROACH CONSIDERATIONS: Appropriate applications will consider the type of patients under consideration, appropriate input images and co-labels, the computer learning strategy or strategies used, the desired outcome, sample sizes for training, validation, and testing datasets. Applications will describe their research team and describe the potential generalizability of their algorithm(s).

ALGORITHM IMPACT ON GLAUCOMA CARE: The application will describe how the algorithm will impact glaucoma care and articulate how the algorithm could set the stage for a future randomized clinical trial of usual care versus AI-guided forecasting enhanced care, if possible. The application should estimate how many patients will be impacted by the algorithm and describe measures that will be taken to maintain the algorithm and check for ongoing robust results after its development.

The application should describe specific aims, provide a background of the problem it wants to solve, offer detailed methodology, review preliminary data, and describe anticipated results. A timeline for achieving the project objectives along with a detailed budget should be provided. It is expected that the study team will demonstrate the capability to assemble the appropriate datasets quickly and initial funds will be released when there is evidence that the algorithm has achieved a precision rate of at least 80%. The preliminary version of the algorithm may be reviewed to determine its functionality. The final installment of funds is released when the team has demonstrated 80% precision on a held-out external dataset, although 90+% precision is the ultimate goal.

FUNDING: A grant of up to \$100,000 will be payable in the first year. Contingent on a satisfactory report, an additional grant of up to \$100,000 will be made in the second year. \$50,000 will be given on publication to a peer-reviewed journal.

Artificial Intelligence Grant Application

Application Instructions

A. Please read through the application carefully and include all the required information. There are five parts to this application:

1. A Summary and Information Sheet
2. A Supplemental Information Section
3. A Budget Form and Other Funding Portion
4. A Project Description
5. A Biographical Sketch.

Please make sure each section is complete.

B. Submit a PDF of your application to asteele@glaucomafoundation.org by **Friday, September 10, 2021**. The email should be titled "Artificial Intelligence Grant Application" with the PDF application attached to the email.

CONTACT US

DONATE



About
Glaucoma

Research
Center

Grants
Society

Get
Involved

News

About
TGF

Events

Art
Challenge

Donate





Submit one original and three copies of the completed application and related appendices. **The hard copy applications must be in our hands by Monday, September 13, 2021, 5:00 p.m. EST.**

[CONTACT US](#)
[DONATE](#)


OUR VISION-YOUR SIGHT

THE GLAUCOMA FOUNDATION

D. Mail/Email applications to:

About

Research

Cure Now

Get

News

About

Events

Art

Donate



Glaucoma

Andrea Steele

Center

Society

Involved

TGF

Challenge

Director of Operations

The Glaucoma Foundation

80 Maiden Lane, Suite 700

New York, NY 10038

asteel@glaucomafoundation.org

For technical questions, please contact:

Robert Ritch, MD

Medical Director, Vice President, Secretary and Founder, TGF

Professor and Chief, Glaucoma Service

The New York Eye & Ear Infirmary

ritchmd@glaucoma.net

Grants will be awarded in winter 2021.

Terms and Restrictions

A. Grants are awarded for a two-year period subject to review after year one.

B. Applicants must clearly demonstrate the Principal Investigator's understanding of glaucoma or his/her collaboration with an investigator who has experience in glaucoma research. If collaboration is warranted, a letter of support from the researcher must be included in the application.

C. Applicants must have a full time faculty position or equivalent.

D. Initial grant funding for a one-year period is limited to a maximum of \$100,000. The Principal Investigator may apply for a renewal for up to \$100,000. Renewal grants are for an additional year's research and must be based upon findings from the first year's A grant of \$50,000 will be made upon publication to a peer-reviewed journal.

E. The Glaucoma Foundation does not provide funds for investigator salaries, travel, overhead, or other indirect costs. However, technician salaries are eligible.

F. No page limit is prescribed. It is left to the applicant to determine the number of pages necessary to make the proposal convincing without being excessive. Minimum font size is 11-point font.

The TGF (sponsored by Patricia Hill) / RPB Fellowships in Glaucoma

Sign up for our newsletter, and stay informed.



The Glaucoma Foundation is a qualified 501(c)(3) tax exempt organization.

[CONTACT US](#)

[DONATE](#)



The Glaucoma Foundation

80 Maiden Lane, Suite 700,

[About](#)

[Research](#)

[Cure Now](#)

[Get](#)

[New](#)

[News](#)

[About](#)

[Events](#)

[Art](#)

[Donate](#)



[Glaucoma](#)

[Center](#)

[Society](#)

[Involved](#)

[TGF](#)

[Challenge](#)

(212) 285-0080

info@glaucomafoundation.org

Significant support for the website provided by Mary Jane Voelker in memory of her mother Dorothy K. Voelker.