



Program Name: Path to a Cure (PTAC) – Postdoc-to-Faculty Transition Award 2020

Brief Program Overview/Description: Path to a Cure: Postdoc-to-Faculty Transition Awards are designed to support postdoctoral research fellows during their CF fellowship and aid in their transition to an independent research faculty position. Candidates for this award can be identified any time during the first four years of their postdoctoral fellowship. It is anticipated that the award will provide the opportunity for awardees to hone research skills, develop into independent investigators, and initiate an independent CF research program.

Funding Amount: Awards can provide individuals up to five (5) years of combined support for their research training (maximum of 3 years, known as “Phase I”) and the initiation of their independent research career (2 years, known as “Phase II”). Refer to the Funding Level table on Page 3 for allowable amounts.

Eligibility:

- United States residents and applicants from outside the United States are welcome to apply.
- Postdoctoral applicants (Ph.D., M.D., D.V.M. or equivalent) engaged in or planning CF-related basic science research projects are eligible. Candidates who are clinical fellows should apply to the [CFF Clinical Fellowship](#) Program for the appropriate year, or for the [LeRoy Matthews Physician-Scientist Award Program](#).

Key Dates:

Published	October 7, 2020
LOI Submission Deadline	N/A
LOI Applicant Notified	N/A
Full Application Deadline	December 7, 2020
Committee Review Date	Mid-March 2021
Notification to Applicants	Late-March 2021
Earliest Project Start Date	May 1, 2021

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COVID Impacts on Research

The CFF fully anticipates that applicants may lack robust preliminary data due to mandated lab closures and capacity limitations caused by the COVID-19 pandemic. For mechanisms that require preliminary data, that requirement will remain, however, reviewers will be instructed to take COVID-19 related impacts into consideration during the review process.

If human samples are required for the proposed study, investigators are cautioned to evaluate the availability of samples and how they may be impacted during the award period in light of the COVID-19 pandemic as well as the introduction of highly effective CFTR modulating drugs. Reviewers will be asked about feasibility of accessing samples and completing the work during the review process.

For any additional questions, please contact the CFF Grants and Contracts Office (grants@cff.org)

I. About the Cystic Fibrosis Foundation

The mission of the Cystic Fibrosis Foundation is to cure cystic fibrosis and to provide all people with CF the opportunity to lead long, fulfilling lives by funding research and drug development, partnering with the CF community, and advancing high-quality, specialized care.

To achieve this mission, various types of grants and awards are offered to support meritorious research in CF.

II. Program and Award Overview

Path to a Cure: Postdoc-to-Faculty Transition Award are designed to support postdoctoral research fellows during their CF fellowship and aid in their transition to an independent research faculty position. Candidates for this award can be identified any time during the first four years of their postdoctoral fellowship.

Awards can provide individuals up to five (5) years of combined support for their research training (maximum of 3 years, known as “Phase I”) and the initiation of their independent research career (2 years, known as “Phase II”). It is anticipated that the award will provide the opportunity for awardees to hone research skills, develop into independent investigators, and initiate an independent CF research program.

Phases:

The program and individual award application is designed in two phases, as follows:

- **Phase I:** Research training to occur during the fellowship: This phase of the award is intended to provide support for up to three (3) years to develop research and professional development skills and undertake research training in an area of priority to CFF. As part of this application, applicants are only required to submit a Research Plan for Phase I. Awardees and their mentors will be required to submit additional materials prior to the initiation of Phase II.
- **Phase II:** Independent Research Investigation (first independent application): This phase is intended to provide support for up to two (2) years for independent research studies. This support need not occur at the institution where Phase I took place. The outline for this work should be submitted for consideration by CFF near the end of Phase I, coinciding with the first academic appointment. In addition to scientific merit, CFF will assess the institution's commitment to the research career development of the recipient in his/her first academic appointment. **At least 75% of the candidate's time must be devoted to CF-related research during Phase II.**

The award will not be made for Phase II independently. Awardees who transition to an independent faculty position before the start of their third year of training support (at an institution other than where

they received their Phase I training) may add a maximum of one (1) additional year onto Phase II of the award. Transition early into Phase II of the award must be approved by the CFF Program Director.

The candidate’s progress and career goals will be subject to annual evaluation by CFF throughout Phase I. Transition to Phase II will be subject to an additional review by CFF, with the scientific merit of the proposed research project evaluated, as well as the institutional commitment to the career development of the candidate.

It is desirable for individuals to complete both phases of the program without interruption. It may be permissible, however, to interrupt the award and delay the start of Phase II, such as to receive additional training, or if a tenure-track faculty position is not obtained. In the event such a contingency arises, the grantee and the Mentor must notify CFF of the interruption and receive approval to assure that funds will be available to resume the award so that the candidate may complete the program.

Guidance:

- Successful candidates for this award will demonstrate outstanding research potential and provide evidence of serious intent for an academic research career related to CF. Please note that the review process for this award is highly selective.
- Postdoc-to-Faculty Transition Awards are awarded based on individual merit, program relevance, and institutional environment. Therefore, **Phase I awards are not transferable** to other individuals or institutions, unless previously approved by the CFF Program Director.
- Individuals entering Phase II are encouraged to apply for additional external research support to fund their program. Program overlap of external funds is allowed.
- Awardees are required to inform CFF annually for a period of five years subsequent to completion of the award about academic status, publications, and research grants or contracts received. In addition, all grantees and institutions must comply with CFF grant policies.

III. Funding Amounts

Awards can provide individuals up to five (5) years of combined support for their research training (maximum of 3 years, known as “Phase I”) and the initiation of their independent research career (2 years, known as “Phase II”).

Funding levels:

The first year of funding requested should coincide with the year of postdoctoral experience as outlined in the following table:

Phase I: Postdoctoral Year	Stipend (salary + fringe)	Research*	Total
First-year Postdoc	\$58,850	\$10,000	\$68,850
Second-year Postdoc	\$61,200	\$10,000	\$71,200
Third-year Postdoc	\$63,550	\$10,000	\$73,550
Fourth-year Postdoc	\$65,990	\$10,000	\$75,990
Fifth-year Postdoc	\$68,200	\$10,000	\$78,200
Sixth-year Postdoc	\$70,500	\$10,000	\$80,500

Phase I stipends may only be used to support the postdoctoral fellow. During Phase II, salary support may be used to support the PI or research staff.

*Research support may include funds for technical costs, i.e. supplies, minor equipment, candidate travel to a national scientific meeting.

The maximum level of support available under this program during Phase I is \$80,500. *Note that applicants may not request a Phase I salary above a 4th year postdoc since applicants should be in their first four years of fellowship.

The faculty phase of the award (Phase II) includes \$80,000 for salary support and \$30,000 for research support, for a maximum level of support of \$110,000 per year.

Note: Salaries should be in compliance with institutional guidelines and can be supplemented by the Grantee Institution.

IV. Eligibility

- United States residents and applicants from outside the United States are welcome to apply.
- Postdoctoral applicants (Ph.D., M.D., D.V.M. or equivalent) engaged in or planning CF-related basic science research projects are eligible. Candidates who are clinical fellows should apply to the CFF Clinical Fellowship Program for the appropriate year, or for the LeRoy Matthews Physician-Scientist Award Program

V. Mentorship Requirements

- Each candidate must identify a primary Mentor with substantial experience in training, and who will provide primary guidance for the awardee's research and professional career development. The Mentor is encouraged to form an advisory committee to develop and monitor the Phase I program and should include course work, seminars, research experience, and other educational experience deemed necessary for the development of an independent research career in Phase II.
- The Mentor(s) must be able to provide the mentorship needed to guide the project if awarded.
- The Mentor(s) must be at the institution where the applicant will be carrying out the work for the project.

VI. Goals of Research Currently of Interest to CFF/Priority Areas

Small molecule CFTR modulators that directly target the mutant protein are powerful therapies that will likely benefit 90% of people with CF in the near future. However, there is still a significant unmet need for people with CFTR mutations that either do not respond to modulators, do not generate sufficient quantities of protein for correction, or block protein synthesis (i.e. premature stop codon mutations, splice mutations, insertion/deletion mutations etc.). To ensure all people with CF have access to powerful new CFTR-directed therapies, the CF Foundation announced the Path to a Cure Initiative in 2019.

Projects supported through the Path to a Cure initiative should focus on foundational concepts, strategies, and methods that have the potential to inform or ultimately translate into novel therapies to restore CFTR protein function or fix/replace the defective CFTR gene.

Emerging areas of interest with high priority to the CF Foundation:

- Molecular characterization of CFTR mutations other than F508del
- CFTR structure/function studies relevant to mechanism of modulator action
- Identifying, characterizing, and validating potential targets to promote nonsense mutation suppression, which includes understanding the pathways and mechanisms that regulate translation termination and nonsense mediated decay (NMD)
- Developing novel means of repairing and/or replacing the mutant CFTR gene
- Characterization of cellular targets for CFTR correction, including airway progenitor cells and other affected epithelial tissues (biliary tract, GI tract, pancreas)

- Developing and optimizing the chemistry and formulation of nucleic acid delivery vehicles, both viral and non-viral, that can target disease relevant cells and tissues
- Comprehensive evaluation of the role of various pulmonary cell types in CF disease pathogenesis (i.e. ciliated cells, club cells, ionocytes, etc.) and the region of the lung that is necessary to target with a genetic-based therapy to prevent, halt, or reverse disease
- Methods to overcome barriers that limit delivery of genetic therapies to disease relevant cells and tissues
- Cell, tissue, and animal models to discover and develop nucleic acid delivery vehicles and/or methods of restoring or repairing CFTR
- Tools and assays to pre-clinically evaluate the efficacy and safety of restoring functional CFTR through gene repair, gene replacement, small molecules, or any other novel method

Note: Applicants seeking to submit proposals focused on other CF relevant topics, including but not limited to mucociliary clearance and airway hydration, infection and host-pathogen interactions, lung allograft dysfunction/rejection, CF-related GI complications, CFRD and other endocrine abnormalities should apply through the general Pilot and Feasibility Award Program (<https://www.cff.org/Research/Researcher-Resources/Awards-and-Grants/Training-Awards/Postdoc-to-Faculty-Transition-Awards/>).

VII. Review and Award

All applications are evaluated by CFF’s Path to a Cure (PTAC) Committee, whose recommendations are reviewed by the Medical Advisory Council (MAC) and/or the Board of Trustees. Funding of awards is based on the priority score awarded to each application and the recommendations of the PTAC Committee. Funding decisions are based on the relevance of the proposed study to the goals of the Foundation, alignment with specific research priorities, and enhancement to the existing CFF project portfolio. All awards are subject to compliance with applicable regulations and CFF policies and are contingent upon the availability of CFF funds.

In addition to scientific merit and relevance to the CFF mission, applications will be evaluated in the following areas:

Applicant	Mentor(s)	Environment	Training & Research Development Plan
<ul style="list-style-type: none"> • Commitment to, or intent to pursue, a research career related to CF • Potential to develop an independent research career related to CF • Research accomplishments 	<ul style="list-style-type: none"> • Established expertise in CF-related basic research or related research areas of high priority to CFF • Commitment of the primary Mentor for the duration of the applicant's development and research plan • Track record of the Mentor training individuals for basic biomedical research 	<ul style="list-style-type: none"> • Quality (breadth and depth) of faculty in basic and/or clinical sciences related to CF at applicant institution • Quality of institution's CF research and training programs • Demonstrated interaction between basic and clinical investigators • Institution's commitment and ability to provide opportunities and facilities necessary for research career 	<ul style="list-style-type: none"> • Feasibility and impact of the proposed plan • Didactic course work required by the applicant (if indicated) • Scientific and technical merit of the proposed research • Ability of the proposed plan to develop research skills of the applicant needed for independence

		development related to CF	<ul style="list-style-type: none"> Relationship to applicant's career development
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All applications will be reviewed and scored by the PTAC Committee. CFF may withdraw applications receiving low scores, and/or those deemed nonresponsive to the program announcement before the review meeting. In these cases, CFF will notify applicants if their application has been withdrawn without discussion. Applications that have not been discussed (or triaged) in two review meetings will not be accepted for further consideration by CFF. In order to resubmit unfunded applications during future application cycles, applicants must address reviewer critiques.

Chief causes for assigning low priority scores to applications during review include the following:

- Insufficient information or documentation
- Inadequate statement of hypothesis, experimental design or methods
- Failure of the applicant to demonstrate awareness of and plans for coping with key problems and pitfalls associated with the proposed research
- Insufficient or improper controls
- Failure of the applicant to describe potential relevance of the proposed study to issues in CF
- Failure of the applicant to document the necessary skills or training to accomplish the goals of the proposal
- Failure of the applicant to meet all of the criteria described in the policy statement for a given award

VIII. Submission Information

Applications deadline: Monday, December 7, 2020 by 5:00 PM (Eastern)

Submit online through <http://awards.cff.org>

(Refer to Section X of these guidelines for specific submission instructions)

An application will be considered incomplete if it fails to comply with the instructions, or if the submitted material is insufficient to permit adequate review. CFF reviews applications electronically, and only documents submitted online at proposalCENTRAL will be reviewed.

General Timeline:

Application Deadline _____ December 7, 2020
 Review _____ Mid-March 2021
 Notification to Applicants _____ Late-March 2021
 Earliest Start Date for Awarded Projects _____ May 1, 2021

IX. Letter of Intent Guidelines

Not applicable to this RFA

X. Full Application Guidelines

Applications must be submitted online at <https://awards.cff.org>

Documents should be typed using:

- Font: Times New Roman 12 or Arial 11
- Margins: No less than a half inch on each side

Note: When all the documents have been uploaded to awards.cff.org, the system will compile them into a single PDF file. You may preview this file by selecting “Application Full Print”, as well as exporting the compiled PDF file.

To login, please visit: <https://awards.cff.org>

First-time applicants must register to create a username and password for “awards.cff.org” and will need to complete a profile prior to submitting an application. If you are registered and cannot remember your password, click on the “**Forgot Password?**” link below the “**Login**” fields.

Once logged in, the award opportunities, including this Request for Applications (RFA), will be listed in the **Funding Opportunities** tab on the opening screen.

Locate the listing for the “**Path to a Cure (PTAC) – Postdoc-to-Faculty Transition Award**” program. Click on the “Apply” button in the column on the far right to open the application form.

Applicants may stop at any point but must click the “**Save**” button before exiting in order to save their progress.

The following sections are displayed as tabs across the application screen. Click on each section and follow the directions. Click “**Save**” as you complete each section.

GENERAL

Enter the title of your project, enter the project start and end dates, select the number of periods being requested, and complete the organizational assurances indications (i.e. IRB, IACUC, and/or IBC/rDNA approval letter and status at the time of submitting the application) in this section.

***Please ensure that you review and comply with the below Organizational Assurances and Certifications as cited at the end of this section on page 12.**

CONTACT PROFILE

If a profile was completed upon registration, the fields in this section will already be populated with the information entered in your Professional Profile. If you need to make any changes, you may update your profile in this section. Once updated you must “**Save and Validate**” prior to returning to continue your submission.

INSTITUTION

If a profile was completed upon registration, the applicant’s/principal investigator’s institution will be preloaded as the Lead Institution. Domestic applicants must verify their institution by entering the Employer Identification Number (EIN) or Tax Identification Number (TIN) to search the system for the correct institution. If the EIN/TIN is not located, you may add the legal institution. Please also confirm if the project site is the same as the legal institution.

Verification of Applicant Institution’s Tax Status (upload as PDF documents):

The CFF Grants and Contracts Office must have a copy of the applicant institution’s current W-9 and 501(c)3 letter, or other documentation verifying its Federal tax status and will not issue Award Letters to Awardees if these documents are not received and on file.

- Applicants from for-profit organizations must submit a copy of the applicant institution’s W-9 and IRS documentation verifying the organization’s Federal tax status. Awards are not issued prior to having these documents on file with the CFF Grants and Contracts Office.

- Non-U.S. applicants must provide a copy of the W-8BEN-E form (required). In addition, a tax equivalency letter should be uploaded, if available. If a tax equivalency letter is not available, applicants must upload a letter stating this documentation is not available.

International Applicants (if applicable):

Applicants whose institution is not a United States based-entity will be contacted to provide additional information and completion a CFF International Institution Form. The completion of this form also includes submission of the following documentation:

- A copy of the institution’s most recent Mission Statement.
- A copy of the institution’s tax status documentation or equivalent, or a letter stating it is not available.
- A brief description of other sources of support, such as official awards, private endowments, and commercial activities, received by the institution.
- A copy of the institution’s Standard Operating Procedure(s) or relevant policy to ensure that funds provided are neither distributed to terrorists or their support networks, nor are funds used for activities that support terrorism or terrorist organizations.
- For-profit institutions must submit a complete list of key employees, members of the governing board, and/or other senior management.

Applicants who have provided these documents within the past three (3) years are not required to resubmit them. However, if any of the above documents have been updated since they were previously submitted, please upload any updated documents. The CFF Grants and Contracts Office will contact applicants if documents are outdated or missing.

***Applicants must provide English translations for all non-English documents, including material provided in support of the Research Plan.**

INSTITUTION CONTACTS

Please note: The INSTITUTION tab must be completed prior to adding internal contacts to ensure that the contacts are properly associated with the applicant institution.

Complete the required contact fields by searching by name for existing contacts at your institution for each role. If the desired institutional contact is not available in the system, you may select “**Add Internal Contact**” to create a basic contact profile in order to add the individual to your application. Additional optional contacts not associated with the applicant institution may also be added. These contacts would be considered as additional contributors involved in the proposed research plan. These may include consultants, collaborators, or subcontractors. If the desired external contact is not available in the system, you may select “**Add External Contact**” to create a basic contact profile in order to add the individual to your application.

REFERENCES

Letters of Support and/or Reference are weighted heavily in the review. At least four (4) letters are required as follows:

- **The Mentor(s) for this award** – A Letter of Support from the current Mentor(s) should clearly identify the merits of the applicant and must include a description of CF-specific and other training the applicant will receive while working under the Mentor’s direction (i.e. seminars, new techniques, professional development, etc.).
- **Additional referees** – Letters of Reference from at least three (3) other individuals familiar with the applicant’s scientific interests and abilities (with no more than two [2] from the same institution) should attest to the candidate’s academic qualifications, motivation, and research potential.

Letters of Reference must be submitted prior to submission of the application. To invite Referees, go to the “**REFERENCES**” tab of the online application, and first search for the referee using the lookup field. If the referee is not located in the system you may select “**Add Referee**” to create a basic contact profile in order to add the individual to the application. Once added, this will generate automated emails (with instructions) sent to each Referee. The applicant should inform Referees to submit the letters at least one (1) week prior to the application deadline. This helps to ensure that the letters have been uploaded before the application is submitted. Once the application has been submitted, no documents can be added.

Letters uploaded to <http://awards.cff.org> should not be password protected or otherwise encrypted. Such encryption will cause errors in assembling a single-print PDF of the application. The applicant should inform the individuals writing letters to not include password protection on their documents.

ABSTRACTS/RELEVANCE

In the space provided online for abstracts, provide a statement of no more than 2,000 characters (including spaces) explaining the subject of the research proposal and its relationship to CF. Two different abstracts are required, as follows:

- **Lay Abstract:** This statement will be used to inform the non-scientific departments of CFF and the general public of the nature of this work. Applicants should not include any confidential or proprietary information, including intellectual property, in the lay abstract.
- **Scientific Abstract:** This statement will be used to inform the scientific community.
- **Summary of Relevance to CFF mission:** All applications are reviewed and scored not only on scientific merit but also on relevance to CFF’s mission:

The mission of the Cystic Fibrosis Foundation is to cure cystic fibrosis and to provide all people with CF the opportunity to lead long, fulfilling lives by funding research and drug development, partnering with the CF community, and advancing high-quality, specialized care.

Provide a statement of no more than 3,000 characters (including spaces) summarizing the relevance of the proposed research to the health and well-being of CF patients, for a scientific audience who may or may not have a background in the subspecialty of the proposed research.

BUDGET

Select the “**Edit Budget**” button under Application Budget, to enter and begin completion of the application’s budget detail for each year of funding being requested. Please refer to the Funding Levels table on Page 3 for allowable amounts. Indirect costs are not allowed.

Salary & Benefits - List the names, positions, and percent effort of all professional and non-professional personnel involved in the project, whether or not salaries are requested. For each individual, be sure to complete all fields on the Budget Detail in full on the template provided. In accordance with National Institutes of Health (NIH) policy, salary requests may not use an institutional base salary in excess of the current federal salary cap of **\$197,300**. Fringe benefits may be requested if they are treated consistently by the applicant institution as a direct cost to all funding agencies and foundations.

Travel - Describe the purpose of any CF-relevant travel. Please note: expenses for travel outside the North American Continent, including travel to Hawaii, Puerto Rico, and other U.S. territories are not allowable expenses without prior written approval from the CFF Grants and Contracts Office. **Travel expenses may not exceed \$1,500 per person per year**. Registration fees associated with conferences are in addition to this allowance should be listed under “Other Expenses”.

Consumable Supplies - Itemize supplies e.g. glassware, chemicals, animals, in separate categories and give the estimated cost of each category. If animals are involved, state the number, unit purchase cost, and unit care cost.

Other Expenses - Itemize other expenses by major categories, such as duplication costs, publication costs, minor equipment (under \$5,000), computer charges, conference registration fees, etc. Tuition costs may be requested for personnel supported through this study but may not exceed **\$10,000** per person per year.

Budget Detail – Indirect Costs

Indirect costs are not allowable

FULL APPLICATION UPLOADS

Download the available templates applicable to the project, upload the completed templates to the corresponding attachment types within this section. Templates available for download include:

- Budget Justification
- Research Plan
- Training Plan
- Biographical Sketches for Key Personnel
- Other Support
- Facilities Available
- Mentor’s Results of Past and Current CFF/CFFT Support
- Critique Response (if resubmission)
- Appendices (if applicable)

Budget Justification

Describe costs listed in the Budget Detail. Use major categories, such as Salary & Benefits, Consultant Costs, Major Equipment, etc. Justify all items and make sure amounts and figures listed in the narrative are consistent with those listed in the Budget Detail.

Research Plan

Page limit: Seven (7) single-sided pages, not including the Literature Cited. Applications exceeding this page limit will not be reviewed. Type the PI's name in the space available in the header of the document. The template available will track page numbers at the bottom.

- Include sufficient information to permit effective review without reference to previous applications. Information should be presented in a clear and concise manner, while being specific and informative.
 - Key figures and legends must be included in the Research Plan and should be of sufficient quality and size to be evaluated by the reviewer. If uploaded as Appendices, they will NOT be reviewed.
 - If the application is a resubmission of an earlier one, revisions must be clearly indicated by a change in font, bolded or underlined. **CFF will not review resubmissions that have not been revised.**
- Hypothesis and Specific Aims:** State concisely and realistically the intent of the proposed research and the hypothesis to be tested. The specific aims should be relevant to the mission of the Cystic Fibrosis Foundation. Do not exceed one page.
 - Background and Significance:** Briefly describe the background. Critically evaluate existing knowledge and specifically identify the gaps that the project is intended to fill. Concisely state the importance and rationale of this research by relating the specific aims to longer-term objectives. This section should also show the potential importance of the proposed work to CF, in particular those areas listed as areas of special interest to CFF. In addition, describe the relationship of the proposed work to your

long-term career goals. Preference will be given to applicants who express an interest in a long-term career in CF-related research.

- c. **Preliminary Results:** If applicable, provide a detailed discussion of any preliminary results.
- d. **Experimental Design and Methods:** Provide a detailed discussion of the experimental design and methods to be used to accomplish the specific aims. Describe the protocols, including methods for new techniques, and explain potential advantages over existing methodologies. Discuss the data expected to be obtained and the means by which data will be analyzed and interpreted. If clinical samples are included in the Research Plan, provide details of the methods for patient selection. Discuss potential pitfalls and/or limitations of the proposed procedures and alternative approaches to achieve aims. Point out any procedures, situation or materials that may be hazardous to personnel or patients and the precautions to be exercised. Since PTAC Postdoctoral Research Fellowships are reviewed by CFF's PTAC Committee, applications that include methodologies requiring sampling of materials from human subjects will only be considered under this mechanism if the sampling method constitutes minimal patient risk (e.g., venipuncture, nasal cell brushing) and patient samples or data are anonymous.
Describe the level of risk and measures taken to assure patient anonymity to the PI and other professional personnel, unless the PI or other professional personnel are care providers. Note: Interventional studies involving human subjects cannot be supported through this program.
- e. **Literature Cited:** References should be numbered in the sequence that they appear in the text at the end of the Research Plan. Each citation must include the names of authors, the name of the journal or book, volume number, page number and year of publication (titles are optional).

Training Plan

The applicant, in conjunction with the Mentor(s), should develop a training plan that outlines skills and techniques that will be learned during this fellowship period as well as CF-specific training that will be available to the applicant. This plan should also address the applicant's long-term career goals and include training and professional development activities that will facilitate the applicant's transition to the next phase of their career. Do not exceed four (4) pages.

Biographical Sketch(es) of Key Personnel

Complete and upload an NIH Biographical Sketch for all the Applicant/Principal Investigator and the Mentor(s). Do not exceed five (5) pages per person.

Other Support

Complete and upload an NIH Biographical Sketch for all the Applicant/Principal Investigator and the Mentor(s). There is no page limitation. Information on other support assists CFF in the identification and resolution of potential sources of overlap. Scientific and budgetary overlap should be minimized. Commitment of an individual's effort greater than 100 percent, is not permitted.

Facilities Available

Describe the facilities and equipment available at the applicant's institution that will be used for this project, such as laboratory, clinical, animal, computer, office, etc. Provide any additional information about the environment, including any support services available that will be utilized. Describe their pertinent capabilities, proximity and anticipated extent of use. If facilities or equipment at a consultant's or collaborative site will be used, they should be identified and clearly described. There is no page limit. Use continuation pages, if necessary.

Mentor's Results of Past and Current CFF/CFFT Support

Mentor(s) are requested to identify the results of past and current CFF/CFFT support (e.g., subsequent funding from other sources, journal articles, and invited presentations) and the CFF/CFFT grant/award

from which they resulted for the past three to five years. Please note that the following information must be included with each research project identified:

- CFF/CFFT Award Number
- Principal Investigator (PI)
- CFF/CFFT Project Title
- Applicant's Title on Project
- Project Start/End Dates
- Total CFF/CFFT Award Amount
- Results of Support

Critique Response (if resubmission)

If the application is a resubmission of a previously declined application, please provide a point-by-point response to the prior reviews. There is no page limit to your responses, but please be concise and succinct.

Appendices (upload materials as PDF documents, if applicable)

Appendices are restricted to the following two (2) categories:

- Certification of organization assurances (i.e. IRB, IACUC and IBC approvals), if applicable.
- Up to three (3) reprints of the applicant's work relating to the general area of research in the proposal may be uploaded in PDF format.

***Organization Assurances & Certifications**

CFF requires, as applicable, that all U.S.-based awardees obtain Institutional Review Board (IRB) approvals for human subject research, Institutional Biosafety Committee (IBC) approval for recombinant or synthetic nucleic acid research, and Institutional Animal Care and Use Committee (IACUC) approval for animal research, (see additional information regarding these approvals below). Copies of these approvals, if available at the time the application is submitted, must be uploaded with the application as appendices. CFF will not release payments to awardee institutions until these documents are received and on file with the CFF Grants and Contracts Office.

Awardees based outside of the U.S. must comply with the applicable equivalent regulations in their respective countries and provide copies of approvals as soon as they are available. CFF will not release payments until these documents are received and on file with the CFF Grants and Contracts Office.

Research Involving Human Subjects: CFF policy pertaining to the protection of individuals as research subjects requires that for each proposal awarded, the awardee institution certify in writing that an Institutional Review Board (IRB) has reviewed and approved the procedures for the use of human subjects, or human organs, tissues and body fluids, in the proposed research, in accordance with the Department of Health and Human Services policies found at <https://www.hhs.gov/ohrp/regulations-and-policy/index.html>. In the event the IRB has determined a study is exempt, documentation demonstrating the exempt status must also be submitted to the CFF Grants and Contracts Office.

Research Involving Recombinant or Synthetic Nucleic Acid Molecules: All research involving recombinant or synthetic nucleic acid and human gene transfer studies supported by CFF must meet the requirements contained in the document *NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules (updated April 2019)*. This publication and announcements of modifications and changes to the NIH Guidelines are available from the Office of Science and Policy, National Institutes of Health, 6705 Rockledge Drive, Ste 750, MSC 7985, Bethesda, MD, 20892-7985 or online at https://osp.od.nih.gov/wp-content/uploads/NIH_Guidelines.pdf.

Research Involving Animals: Applications submitted to CFF involving the use of animals must meet the guidelines of the National Institutes of Health found at <https://grants.nih.gov/grants/olaw/olaw.htm>, which require that all proposed studies be reviewed and approved by an Institutional Animal Care and Use Committee (IACUC). In addition, CFF awardee institutions and laboratories must be accredited by the American Association for Accreditation of Laboratory Animal Care (AAALAC) and/or have other verifiable assurances that the institution and laboratory meet appropriate standards.

Validation and Submission

Prior to selecting “**Sign & Submit to AIO**”, please complete a thorough review of the entire application. The “Sign & Submit to AIO” button will trigger validation on all required fields and identify any errors. Upon submission the ability to edit the application will be locked pending review and approval by your AIO.

XI. Other Information

Not applicable to this RFA

XII. Contact Information

For technical support and program/content information:

Primary CFF Grants and Contracts contact ewarnke@cff.org or 301-841-2614

Secondary CFF Grants and Contracts contact nmohaghegh@cff.org or 301-841-2614

For scientific questions:

John Sheridan, Ph.D. at jsheridan@cff.org