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2021 AHA Research Funding Application Instructions

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AHA Mission

To be a relentless force for a world of longer, healthier lives

Preface

Thank you for your interest in applying for research funding from the American Heart Association (AHA). This guide is intended to assist you with the successful preparation and submission of your application. Click on the question marks (?) throughout the application sections for instructions, help text and links.

The AHA uses a Web-based tool, [ProposalCentral](#), to manage the entire application process. The system is available to all AHA research customers, including applicants, grants officers, fiscal officers, peer reviewers, awardees and more. The system is accessible 24/7.

AHA Policies Governing All Research Applications and Awards

Policies on the following topics govern all AHA research applications and awards. Visit the [policies web page](#) for full information.

- Open Science Policies for AHA-funded research
- Patent, Intellectual Property and Technology Transfer Policy
- Standards on Falsification of Scientific Data, Plagiarism and Scientific Misconduct
- Privacy Statement: Policy on Collection and Use of Personal Information
- American Heart Association Policy on Support of Stem Cell Research
- Ethical Aspects of Research with Human Subjects and Animals
- Family, Medical or Military Leave for Awardees
- Investigator Financial Disclosure Policy/Objectivity in Research

Assistance

Please visit professional.heart.org/FundingOpportunities for information on research programs and deadlines.

Contact [ProposalCentral](#)

800 875 2562 (Toll-free U.S. and Canada) or +1 703 964 5840 (Direct Dial International) or pcsupport@altum.com with questions/issues such as:

- I cannot access my ProposalCentral account.
- I cannot find the proposal/LOI that I just started.
- I keep getting an error message when I try to access a page in my application.
- I keep getting an error message when I upload a PDF file.
- The link to provide my reference letter does not work.
- I need to update my institution and contact information, but I am not sure how to do that.
- The institution that I put in my profile is not a confirmed institution. What do I do?
- It seems that I have more than 1 login for ProposalCentral. Can I merge them?
- I validated my application but the submit button is still not available.

Contact the American Heart Association

apply@heart.org or (214) 360-6107 (option 1) with application questions/issues such as:

- Do I meet the eligibility requirements for the application?
- How much detail do I need to input for the Research Plan in my application?
- May I submit more than one application?
- Can I add figures and/or legends to the application?
- It says to upload my biosketch. Can that be in NIH format?
- I need help with AHA Professional Membership.
- Can I pay a collaborator (or other personnel) from this grant?
- I would like to request an extension to the deadline.
- I need to replace a document in my submitted application.
- I wanted to apply for a grant but cannot find the opportunity listed on the ProposalCentral site.

AHA Funding Opportunities

Program descriptions of funding opportunities are generally posted on the AHA [website](#) several months prior to the application deadline. The program descriptions contain important information that will help you determine which program is right for you. Review the posted program descriptions to ensure that you have the most up-to-date program requirements. View descriptions of the AHA research programs.

AHA advises beginning the application process early. The applicant is responsible for preparing the application and working with all parties associated with the application to ensure timely submission by the application deadline date.

Required AHA Professional Partner

Each applicant must be an AHA Professional Partner/Member. Join or renew when preparing an application in ProposalCentral, [online](#), or by phone at 301-223-2307 or 800-787-8984. Membership processing may take 3-5 days; *do not wait until the application deadline to renew or join*. Current AHA awardees are permitted to use award funds to renew annual AHA Professional Partner dues.

Each applicant must be an American Heart Association Professional Partner (levels start under \$100). This applies to Predoctoral and Postdoctoral Applicants *This requirement was developed by the AHA Research Committee, AHA's Council Leadership Committees, and the Council Operations Committee. It was considered and approved by the Science Advisory Coordinating Committee (SACC) and the Board of Directors.*

Until an applicant joins or renews as an AHA Professional Partner, she/he will not be able to submit the application to the AHA.

If you are already an AHA Professional partner, enter your membership number. The last name on your application must match the last name associated with the membership number. If you do not know your membership number, Visit [Professional Heart Daily](#) and choose 'find my account' at the top right corner of the screen. Enter your name and email address.

Visit the [AHA Professional Partners page](#) to find out more about membership levels and benefits. Partner dues are not refundable. Questions about the AHA Professional Partner requirement may be directed to apply@heart.org or call 214-360-6107 option 1.

AHA Partner Frequently Asked Questions

- *As a fellowship applicant, may I use my sponsor's Partner number?*

Predoctoral and postdoctoral fellowship applicants must have their own memberships. They are not covered under their sponsors' accounts. AHA wants to more actively engage these training-level investigators to become involved with AHA professional councils and to explore the many opportunities available through the association. Applicants to the Institutional Undergraduate Student Fellowship program are exempt from the Partner requirement, due to the short duration and limited dollars for these awards.

- *How do I find my Partner number and learn if my account is still active?*

There are several ways to validate your status:

1. Log into the AHA Partner site by clicking the 'SIGN IN' button at the top right of the screen. Enter your username and password. Once logged in, your name and Partner ID will appear on the screen.
2. Your Partner number can be found on the journal mailing label above your name, a renewal notice, in your original welcome packet and on your AHA Partner card.
3. If you have a few days prior to the research application deadline, you can send a request via e-mail to ahacustomerservice@lww.com. Please include your full name and address for confirmation. Response from this web site may take up to three days.
4. Call AHA Customer Service during regular business hours 7:30 a.m. to 4 p.m. (Central Time) at 301-223-2307 or 800-787-8984.
5. Contact the AHA's applicant assistance team at apply@heart.org.

In the meantime, you may complete the entire application, but you will not be able to submit it until you enter your account information or join via the link in the application.

- *My member number is not recognized, because my name has changed, and my new last name has been pre-populated. What should I do?*

Please update your profile by following these steps:

1. Visit [Professional Heart Daily](#) and choose 'sign-in' at the top of the screen. Enter your username and password.
 2. Once logged in, select your name in the header. The Partner badge will display.
 3. Scroll down and select 'Profile Update' link. The Profile Update page allows you to update your account information (i.e. name, email, password, etc.). The change is made to the database immediately.
- *I need to become an AHA Professional Member so that I may apply, but I am too close to the submission deadline to wait 3 days to receive confirmation after registering.*

Use the link contained in the application to be instantly recognized as a member. Follow these

steps:

1. Log onto ProposalCentral and open/begin your application.
2. Go to the AHA Partner/Application Fee screen and click the link to join from within the application. By using this link, you will be taken to the AHA Professional Partner site.
3. Complete the joining process.
4. Click the button at the bottom right to be routed back to your application in ProposalCentral. The system will now recognize that you have gone through the process. You will be able to submit your application to your grants officer.

- *If my grants officer declines my application to allow me to make revisions, will my profile or payment information be saved?*

If your grants officer declines your application, all your profile information will be saved. If your membership has expired between the time you began your application and the time you submitted it to your grants officer, your information will not be saved.

- *If my grants officer misses the deadline, will the AHA still charge me?*

When you enter your information to pay the fee and click "Submit Payment," your credit card is charged immediately.

If the applicant decided not to submit and instructed his/her grants officers not to send the application to AHA, then the dues can be refunded.

If a grants officer will not allow the application to be submitted to AHA, then dues will not be refunded.

- *I just joined AHA (or renewed) as a Professional Partner using the link from the Application Fee page in my application. I had to log back in, and it appears that my sign-up did not work.*

-

1. If the applicant closed the signup page, instead of clicking the button to return to the application, go to the Application Fee page of your research application. Under 'Are you an AHA Professional Member?', click Yes.
2. Select 'Forgot your member number'.
3. Use the option to search by member's username and click 'verify'.
4. "Processing (Your membership has been validated. Please continue.)" should now appear in the partner number field.
5. This confirms that the signup process was completed, and you may submit the proposal to your grants officer.

- *Will my grants officer be able to see my credit card or AHA Partner information?*

No, the data fields will become blank after your payment has been received by AHA. You must log into your AHA Professional Partner account to see personal information.

How to Access ProposalCentral

Please follow the instructions on the [AHA Proposal Central login page](#).

Bookmark this page. Use this to log into ProposalCentral, so that your AHA information remains connected to your research activity.

Applicant Profile

In this section, you will provide information about you, your academic career, citizenship, location of work for the research project and college degrees. The information on this screen is pre-populated based on the information you entered when you registered. To update or change this, click "Profile Manager" at the top of the screen at any time prior to application submission.

This will direct you to the Professional Profile where you can update information. Make sure to click the Save button within the Professional Profile to retain any changes. When you have finished, click Return to LOI/Proposal.

To change the institution:

1. Click the Change Institution button.
2. Enter a partial name search for your organization and click the **Display Results** button.
3. If you:
 - a. **See your institution listed**, select it by clicking the radio select in the left column and click the **Select** button at the bottom.
 - b. **Do NOT see your institution listed**, see the "How to Register your Institution with proposalCENTRAL" instructions for information on how to create a new Institution Profile. ([Click here for those instructions.](#))
4. After selecting the appropriate Institution Profile (3a above), you will be returned to your application. Click the **Save** button with the application to retain your changes.

Update Information Showing

Only institutional personnel with access to the institution's profile can update it. If you see an **Edit Institution Profile**, you can edit the Institution Profile by clicking that button. Make sure to click the **Save** button within the Institution Profile to retain any changes. Once you are done, click the **Return to LOI/Proposal** button.

If you do not see the **Edit Institution Profile**, below the information about the institution will be the name, e-mail, and phone number of the person at your institution who created the profile and should have access to update it. Contact that person to have them make the necessary changes. If that person is no longer at your institution, you can contact Customer Support CUSTOMER SUPPORT: 800-875-2562 (Toll-free U.S. & Canada) +1-703-964-5840 (Direct Dial International) pcsupport@altum.com to find out if there are other individuals at your institution who can update the institution profile.

Get an ORCID iD

You are not required to have an ORCID iD to log into proposalCentral, however, it is now required to submit applications to the AHA. ORCID is a service that allows researchers to easily keep track of their publications, institutional associations, and other support. Once you create your ProposalCentral account you have the option to link it to your ORCID account. Information from your ORCID profile can be reused within ProposalCentral streamlining the proposal and reporting process.

To create an ORCID iD, go to <https://proposalcentral.com>. On the Application Login screen, click "iD LOGIN using ORCID". This redirects you to orcid.org.

1. Click on the blue Register Now link at the top of the page. Under Visibility settings, select Everyone to allow information to be visible in ProposalCentral.
2. Click Register. A pop-up may appear if your name is like other users. If no listing on the pop-up is you, click "None of these are me."
3. Click the blue Authorize button to allow linking to a ProposalCentral account.
4. On the next page, " if you do not have a ProposalCentral account select "Click here to create ProposalCentral account and link to ORCID. If you have a ProposalCentral account, select "Click here to go back to ProposalCentral."
5. Once you successfully sign into ORCID, you are re-directed back to the ProposalCentral registration page. Your ORCID iD, First Name, Last Name, and Email will auto-populate from ORCID. Complete the remaining details and continue the registration process as described in the previous "Create an Account" above.
6. To link an ORCID account:
 - a. Go to the green "Professional Profile" tab and click "Create or Connect your ORCID iD".
 - b. You will be directed to the ORCID login screen. If you already have an account, login with your ORCID iD and password. If you do not have an ORCID account and wish to establish one, then click "Register Now".
 - c. When you connect your ORCID iD with your ProposalCentral profile, you can easily transfer information from your ORCID record to ProposalCentral and take some of the pain out of online form-filling. Instead of re-keying the same information every time you submit a grant application, ProposalCentral can retrieve relevant data, where available, directly from your ORCID record. All you will need to do is verify that it is correct!

Application Preparation

Page Setup/Formatting

Some required documents may be prepared prior to creating the application in ProposalCentral. Adherence is mandatory to the page limits and format requirements below. No applicant should have an advantage over other applicants by providing more content in his/her application by using smaller, denser type.

Applications may be administratively withdrawn by AHA if the proposal does not comply with format requirements (type size/characters per inch, lines per page, and page limitations).

- Document must be single-spaced.
- No more than 15 characters per inch (cpi) or an average of no more than 15 cpi (cpi includes symbols, punctuation, and spaces).
- No less than ¾" page margins on all four sides.
- Maximum of 60 lines per page. (The average number of lines per page using the font and point size below will be 50-55 lines.)
- Arial Font style, 12-point font size for Windows users; Helvetica Font style, 12-point font size for Macintosh users.
- Only Portable Document Format (pdf) files are accepted

It is not necessary to number your pages or to put your name on every page.

Internet Web site addresses (URLs) may not be used to provide information necessary to the review because reviewers are under no obligation to view the Internet sites. Moreover, AHA reviewers are cautioned not to directly access an Internet site, as it could compromise their anonymity. The only place a URL may be used is in the biographical sketch as described in the instructions for that form.

The AHA has the responsibility to make final determination of conformance to format requirements and the authority to withdraw applications. This decision is final and not subject to appeal.

Required documents for each program can be found on the [Required Application Documents page](#). Content cannot be modified or changed once an application is submitted to AHA. Only the required documents for submission will be accepted. Additional or supplemental documents will not be accepted.

How to Create an Application in ProposalCentral

Please link to this tutorial on [How to Create an Application using ProposalCentral \(PDF\)](#)

Multiple Submissions

A PI may submit only one application per program type in a fiscal year (July 1 through June 30). Exception: An applicant may submit more than one Innovative Project Award application, each with clearly distinct aims.

Regarding applications from different program types in the same fiscal year:

- An individual may hold more than one AHA award concurrently but may only hold one career development/recognition award (AHA Institutional Research Enhancement Award, Career Development Award, Established Investigator Award, or Merit Award).
- Strategically Focused Research Network personnel may also hold individual AHA awards. However, an AHA Postdoctoral Fellowship applicant who is designated as an SFRN fellow during the review cycle must withdraw his/her individual application. SFRN fellows are not eligible to apply for an individual fellowship.

Multiple AHA Applications Allowed

Please review Program Descriptions for eligibility criteria and restrictions.

If you do not have current AHA funding, you may apply for:

Collaborative Sciences Award	
<i>and</i>	
Institutional Undergraduate Program Director	
<i>and</i>	
Transformational Project Award	
<i>and</i>	
Multiple Innovative Project Awards	
<i>and</i>	
Strategically Focused Research Network Funding	
<i>and, if you meet the award criteria:</i>	
AHA Institutional Research Enhancement Award	
<i>and</i>	
Career Development Award <i>if you have never held an AHA Scientist Development Grant or AHA Career Development Award</i>	You may accept only ONE award from this group

or	
Established Investigator Award <i>if you have never held an AHA Established Investigatorship or AHA Established Investigator Grant</i>	
and	
Merit Award	

If you have one of the following strategic awards:

Collaborative Sciences Award	Institutional Undergrad Program Director	Transformational Project Award	Innovative Project Award	Strategically Focused Research Network Funding	You may accept only ONE award from this group
<i>You may also apply for</i>					
Collaborative Sciences Award					
and					
Institutional Undergraduate Program Director					
and					
Transformational Project Award					
and					
Multiple Innovative Project Awards					
and					
Strategically Focused Research Network Funding					
and, if you meet the award criteria:					
AHA Institutional Research Enhancement Award					
and					
Career Development Award <i>if you have never held an AHA Scientist Development Grant or AHA Career Development Award</i>					
or					
Established Investigator Award <i>if you have never held an AHA Established Investigatorship or AHA Established Investigator Grant</i>					
and					
Merit Award					

If you have one of the following training grants:

AHA Predoctoral Fellowship	AHA Postdoctoral Fellowship	Strategically Focused Research Network Fellowship
<i>and you will have a faculty/staff appointment by the time of award activation, you may apply for:</i>		
Collaborative Sciences Award		
<i>and</i>		
Institutional Undergrad Program Director		
<i>and</i>		
Strategically Focused Research Network		
<i>and</i>		
Transformational Project Award		
<i>and</i>		
Innovative Project Award		
<i>In addition, if you meet the award criteria, you may also apply for:</i>		
Career Development Award		
<i>if you have never held an AHA Scientist Development Grant or AHA Career Development Award</i>		
<i>and</i>		
AHA Institutional Research Enhancement Award		
		You may accept only ONE award from this group

If you have a Career Development Award, you may also apply for:

Collaborative Sciences Award		
<i>and</i>		
Institutional Undergraduate Program Director		
<i>and</i>		
Strategically Focused Research Network funding		
<i>and</i>		
Transformational Project Award		
<i>and</i>		
Innovative Project Award		
<i>And, if your Career Development Award is in its final year, you may also apply for</i>		
Established Investigator Award		
<i>if you have never held an AHA Established Investigatorship or AHA Established Investigator Grant</i>		
<i>and</i>		
AHA Institutional Research Enhancement Award		
<i>and</i>		
Merit Award		
		You may accept only ONE award from this group

If you have a Merit Award, you may apply for:

Collaborative Sciences Award
<i>and</i>
Institutional Undergraduate Program Director
<i>and</i>
Transformational Project Award
<i>and</i>
Multiple Innovative Project Awards
<i>and</i>
Strategically Focused Research Network Funding
<i>And, if your Merit Award is in its final year, you may also apply for</i>
Merit Award
<i>and</i>
Established Investigator Award
<i>and</i>
AHA Institutional Research Enhancement Award

You may accept only ONE award from this group

If you have an Established Investigator Award, you may apply for:

Collaborative Sciences Award
<i>And</i>
Institutional Undergraduate Program Director
<i>And</i>
Transformational Project Award
<i>And</i>
Multiple Innovative Project Awards
<i>And</i>
Strategically Focused Research Network Funding
<i>And, if your EIA is in its final year, you may also apply for</i>
Merit Award
<i>and</i>
AHA Institutional Research Enhancement Award

You may accept only ONE award from this group

If you have an AHA Institutional Research Enhancement Award (AIREA), you may apply for:

Collaborative Sciences Award
<i>and</i>
Institutional Undergraduate Program Director
<i>and</i>
Transformational Project Award
<i>and</i>
Multiple Innovative Project Awards
<i>and</i>
Strategically Focused Research Network Funding
<i>And, if your AIREA award is in its final year, you may also apply for</i>
AHA Institutional Research Enhancement Award
<i>and</i>
Career Development Award
<i>if you have never held an AHA Scientist Development Grant or AHA Career Development</i>

You may accept

<i>Award</i>	only ONE award from this group
<i>or</i>	
Established Investigator Award <i>if you have never held an AHA Established Investigatorship or AHA Established Investigator Grant</i>	
<i>and</i>	
Merit Award	

The Application Sections

The sections of the application and the required document uploads vary by program. Required documents for each program are listed on the [Required Application Documents](#) page. To follow the standard flow of the application, click "Continue" at the bottom of each page. You may also select the section you wish to work on by clicking on it in the menu on the left side of the screen.

Question marks throughout the application contain instructions for each section. You must save each section as you complete it.

If you upload an incorrect document prior to submitting the application to your grants officer, repeat the upload task and select the correct document. The new document will replace old one upon saving.

1 Project Title

Title: You must first create a title of up to 120 characters.

Start and End Dates: The award start and end dates are set, according to the award type.

Resubmission: Indicate if this is a resubmission. If a resubmission, indicate if the previous application was created in ProposalCentral or in another system, which you would choose for a proposal created in Grants@Heart.

Some AHA programs permit resubmission of the same or similar application (similar aims) up to three times (the original plus two resubmissions). The same or similar application submitted for the fourth time will be withdrawn.

If major changes are made to the application or if this is an entirely different/new project, it should not be checked as a resubmission.

It is not acceptable to resubmit an application originally submitted by another investigator. Such applications may be withdrawn or disapproved.

To have the benefit of critiques from the previous submission, a resubmitted application will be assigned to at least one of the primary reviewers that it was assigned to in the previous round, whenever possible. Reviewers for resubmitted applications will be provided with the critiques and scores from the previous round for reference.

Programs eligible for resubmission:

- AHA Predoctoral Fellowship
- AHA Postdoctoral Fellowship

- Career Development Award
- Collaborative Sciences Award
- Established Investigator Award
- Institutional Undergraduate Student Fellowship Program
- AHA Institutional Research Enhancement Award (AIREA)

2 Download Templates & Instructions

Links in this tab go to this Instructions document and to lists of documents required of applicants and third-party personnel for each award type.

3 Enable Other Users to Access this Proposal

Access Permissions: This screen allows you to give other users access to your proposal.

You can give one of three levels of permissions:

- View (View only. Cannot change any details.)
- Edit (Can view and change information in the grant application. Cannot Submit or view this Access Permission screen)
- Administrator (Can view, edit, and submit the application. Can give access rights to others.)

To Give Another Person Access to Your Grant Application:

1. Be sure each person is a registered user in the ProposalCentral system. If they are not registered, direct them to register the same way that you did. They do not need to completely fill out a Professional Profile - only the required fields of first and last name.
2. At the bottom of the screen, locate the "Proposal Access User Selector" section. Enter the User ID or e-mail address of the person you wish to give access to in the "User ID/E-Mail" field. Click "Find User". The person you added will be added to the list at the top the page of users who have access to your application. The default access permission is "View."
3. Finally, select the permissions level for the person you have just added - View, Edit, or Administrator - then click the "Save" button.

Note: This process only gives access to your application. Access to your Professional Profile must be done separately from within the Professional Profile.

Auto Notify: To enable your co-investigators, department, or grants administrators to receive system notifications, add them with at least "View" access below and check the box "Auto Notify".

4 Accept Program Requirements

Each AHA award program has different eligibility criteria. The Applicant must acknowledge that they have read and understand each requirement to submit this proposal. The AHA will review and confirm your responses for compliance with program requirements. If it is determined that the Applicant does not meet the program requirements, the proposal may be withdrawn from consideration.

If you do not agree to all the following statements, please do not proceed with completion of the proposal. Contact the AHA if you have questions about the requirements at

5 Applicant/PI

The person who creates the application (letter of intent or proposal) is the default Applicant/Principal Investigator (PI). Contact information from this person's Professional Profile (My Profile), including primary institution affiliation, is pre-loaded to this section of the application.

To change the Applicant/PI and the institution affiliation, choose from the list of available names. For privacy reasons, the list contains only the following: the name and institution of the person who created the application (either the Applicant/PI or another individual at the institution) and the names of individuals who included you in the Access Permissions section of their Professional Profile (such as other PIs or administrators at the institution).

If, after changing the Applicant/PI, you need to update the contact information that appears below it, you can click "Edit Profile" to go directly to your Professional Profile, or exit this screen and select the Professional Profile tab from the proposalCENTRAL management window. Changes will be automatically uploaded to the Applicant/PI screen. Contact information and institution affiliation from the selected Applicant/PI's Professional Profile is preloaded to the Applicant/PI contact information section below. Required fields are marked with a red asterisk *.

Note: if the required fields are incomplete or incorrect, changes must be made in the Applicant/PI's Professional Profile (My Profile). You can go directly to the selected Applicant/PI's Professional Profile by clicking the button "Edit Profile." Alternatively, you may exit the Applicant/PI section and use the Professional Profile tab in your proposalCENTRAL management window (usually located in a different proposalCENTRAL browser window than the application).

Professional Time Usage: Enter the percent of time to each category listed.

6 PI Demographics

Gender, race, ethnicity, and residency/citizenship information listed here is copied from the applicant's Professional Profile. Please click Edit Profile to make changes. This information will not be used as part of the review process.

7 Institution and Personnel

In this section, select or add institutional personnel and give them access to your proposal.

Institution: The institution associated with the applicant's profile will be displayed. Select the "Change Institution" button to update.

Select the Grants Officer and Fiscal Officer from the drop-down lists. Enter their email and confirm their email addresses.

These personnel will not need to provide supporting documentation for the application, however, the Grants Officer will need to electronically sign the proposal prior to submission.

If the appropriate person is not listed in the drop-down menu, you can add their e-mail twice and click the Add button.

If the person you selected/entered:

> Already has an account in proposalCENTRAL, the contact information from their Professional Profile will display. You can update the text that is displayed in your application and click the Save button. Information you change here will NOT change the person's professional profile.

> Does not have an account in proposalCENTRAL, you will need to supply the contact information for the user. When you click the Save button, an account will automatically be created for the person with the contact information you supplied. Close the window link.

CUSTOMER SUPPORT: 800-875-2562 (Toll-free U.S. & Canada) +1-703-964-5840 (Direct Dial International) pcsupport@altum.com

Give Access to your Proposal: Regardless of which method you used to add the institution official, a new window will show with the person you selected/entered. If you want the person to have access to the application, you must provide it in the "Enable Other Users to Access this Proposal" section.

8 Third Party Personnel

In this section, add require or optional contributors to your proposal.

Required personnel will be listed on this screen. You may add optional personnel from this screen, as well.

Identify the people associated with the application and their roles in the project. All third parties -- EXCEPT referents -- should complete their supporting documentation and send it to the applicant by email.

After third party personnel have emailed their required PDF documents to the applicant, the applicant must upload the Required Application Documents ON THIS SCREEN.

Referent letters, which are considered confidential, will be uploaded by your referees. You will be able to see if have been uploaded, but you will not have access to read reference documents.

The application cannot be submitted without the supporting documentation, including reference letters, so you should notify third parties of your deadline for submitting the application.

Third Party Definitions

a. Collaborating Investigator

A collaborating investigator contributes in a substantive way to the scientific development or execution of the project.

Typically, a Collaborating Investigator has a doctoral or other professional degree and would devote a specific percent of effort to the project. The collaborating investigator must provide supporting documentation for the research application. View details for [collaborating investigators](#).

b. Consultant

A Consultant contributes to the scientific development or execution of the project in a discrete way; typically, a Consultant has a doctoral or other professional degree. A Consultant may provide discrete services that are performed in a limited window of time or occasionally contribute a specific method/technique/analysis or materials for the project.

For Fellowship Awards, the services of a consultant are not routine and should only be listed where the consultant is essential to the proposed research training experience. View details for [consultants](#).

c. Department Head

Provide the department head's name and email address. If the application is funded, these fields will enable the department head to provide a required electronic signature on the AHA Award Agreement.

The Department Head provides information about the applicant's academic appointment, career stage, support from the institution, etc. for applications to the following programs:

- Career Development Award
- Established Investigator Award
- AHA Strategically Focused Research Network
- A-TRAC Pilot Projects Grant Programs

View the [Department Head Letter information Web page](#).

d. Mentor for the Career Development Award

The role of a mentoring team member is to work with the applicant to develop the application and to make all necessary arrangements for conducting the proposed research work with the institution. Each member of the mentoring team must provide supporting documentation required by the American Heart Association for the research application.

The Department Head may serve as a member of the mentoring team.

A consultant or collaborator may not also be named as a member of the mentoring team.

View the [Mentoring Team for the Career Development Award Information Page](#).

e. Mentor/Sponsor

A mentor is a senior investigator under whom the research project of an AHA Predoctoral or Postdoctoral Fellowship will be performed. A mentor is the administrative link with the institution. The mentor offers supervisory or collaborative assistance necessary for the progress of the research program. A mentor must be familiar with an applicant's area of research. View the [Mentor/Sponsor Information Page](#).

f. Co-Sponsor

A joint sponsor of an AHA Predoctoral or Postdoctoral Fellowship applicant has the same responsibilities described above for the sponsor. Since the co-sponsor is an optional third party, the applicant must add co-sponsor section to the Third-Party section. The sponsor should work with the co-sponsor to obtain content for the required documents. View the [Sponsor Information Page](#).

g. Referent/Referee

A referent is an individual familiar with the applicant's scientific interests and abilities. Letters should be composed by the Referent and should not originate from the applicant. Any appearance of substantially similar language in reference letters will be factored into the score for the Sponsor and Environment, which will impact the overall score.

A collaborator, consultant or sponsor contributing to an application that requires reference letters may not serve as a referent. Please visit the [Referent Information Page](#) for information about the referent upload process and to download a template of the [Reference Report form \(DOC\)](#).

h. Co-Principal Investigator

The Collaborative Sciences Award is the ONLY program that allows a Co-Principal Investigator. The applicant who initiates a Collaborative Sciences Award application must list himself/herself as a Co-PI in the Third-Party Personnel section to upload required documents.

The American Heart Association recognizes only one Principal Investigator for all other programs. An investigator contributing to your project may be listed as a Collaborating Investigator.

i. Other

AHA Institutional Research Enhancement Award (AIREA) applicants: Use this option to add the Provost or institutional official who will submit to you a one-page letter attesting to your institution's eligibility.

9 Project & Non-Scientist Summaries, Classifications

a. Summary for Non-scientists (lay summary)

(2500-character limit)

Applications for research funding will be assessed for their potential impact on the AHA Mission, and on the applicant's ability to effectively describe the proposal and its potential outcomes to non-scientists. This potential impact assessment will be based primarily on the Summary for Non-scientists.

This assessment will be factored into the Impact peer review criterion, which will account for 5-10% of the overall priority score.

The summary will be reviewed by the study section and may be assessed by a lay reviewer. A lay reviewer is an individual who does not have formal training as a scientist, and who has strong interest in advancing the prevention and/or management of cardiovascular and/or cerebrovascular diseases and brain health. Lay reviewers specifically help evaluate how well the applicant explains the potential impact of the proposal.

Describe your work in a way that it will be understood by people who do not have scientific or medical backgrounds. Be clear and avoid technical and scientific terms when possible. It might help to imagine that you are explaining your work to a new acquaintance who does not work in the science field.

Address the following points:

- 1. What is the major problem being addressed by this study?*
- 2. What specific questions are you asking and how will you attempt to answer them? Please do not list your specific aims - this is a brief overview targeted for a lay audience*
- 3. What is the potential overall impact of this work on the mission of the AHA? For example: What major therapeutic advance(s) might it lead to, such as new drug(s), a surgical technique/procedure, a diagnostic tool/test, a previously undetected risk factor, etc.*

Below the text box, your summary's grade level will be automatically calculated. The AHA recommends that the lay summary be written on a 10th grade level. If your summary is written above the 12th grade comprehension level, your application cannot be submitted. The parts of your summary that would benefit from editing will be highlighted in yellow and red. For assistance with editing your summary, you may use <https://readable.com/text/> or a similar online tool.

b. Project Summary

(2500-character limit)

Write a concise description or abstract describing the proposed work. This should be as brief as possible since you also will be required to upload a separate letter of intent document. The project summary is a brief synopsis of the proposal and NOT the detailed Research Plan, which may contain proprietary information.

Note: This field will not accept special characters or keystrokes (such as superscript or subscripts, special characters, Greek symbols, quotation marks, italics, underlining, bolding, etc.) into this form field.

Please indicate your permission to share overview information about this proposal: Periodically, donors (individuals and other organizations) wish to co-sponsor awards with AHA. To support these efforts, AHA must obtain applicants' (and fellowship proposal sponsors') permission to share information that may include applicant's name, institution, project title, project summary, and summary for non-scientists.

c. Science Classifications

Choose the classifications that most closely match your science, and then click the + button. This information is used as part of the peer review committee selection. Choose BOTH a Major Classification 1 and 2. Your first choice should most closely match your proposal. Click here to view AHA's current [Science Categories](#).

d. Research Classification

Select the term from the dropdown that best describes the work proposed: Basic, Clinical, or Population.

The American Heart Association is frequently asked to categorize the research it is funding by several different categories. Requests can originate from donors, the public or our many volunteers. Please complete each of the classifications as they relate to your research project.

10 Budget Period Detail

Enter the projected costs for Personnel and Non-Personnel (equipment, supplies, travel, printing/publications, other). Most AHA awards include 10% overhead. AHA does not pay indirects on Predoctoral and Postdoctoral Fellowships. Consult the [program description](#) for details.

If the application is funded, the Budget Justification will be reviewed prior to award activation to confirm that budget items comply with AHA Guidelines and allowable expenditures.

Below is a list of Allowable and Non-allowable budget items. These are defined in the [AHA Award Guide \(PDF\)](#).

Expense Types	Allowed
Alterations and Renovations	No
Books, Subscriptions	No
Collaborating Investigator Salary/Fringes	Yes
Computers	Yes
Consultative Services	May be requested, AHA approval required
Data Network chargebacks	No

Equipment	Yes
Expenses in Obtaining a Visa	No
Indirect Costs	Yes, up to 10% of total annual expenses reported
Malpractice Insurance	No
Other Personnel Salary/Fringes	Yes
Overhead	Grant Program: Yes, up to 10% of total annual expenses, unless otherwise noted. Fellowships: No, AHA does not pay overhead on awards that are mostly salary support.
Parking Fees	No
Patient Care, Hospitalization, Diagnostic Laboratory	No
Patient Transportation	Yes
Payment of Human Subjects	Yes
Personnel Recruitment	No
PI Salary/Fringes	Yes
Postage—Overnight Mail related to Project	Yes
Publication Costs and Reprints	Yes
Receptions and Meals	No
Service Contracts	Yes
Subcontracts	Yes, with prior AHA approval
Supplies	Yes
Telephone—Long Distance related to Project	Yes
Travel—Domestic or Foreign	Yes
Tuition Costs	No
Uniforms, Wearing Apparel	No

11 Budget Summary

This is a read-only display of the budget items entered in the Budget Period Detail section.

12 Alternative and Overlapping Funding

List all research project support available to you (active, approved, or pending) for funding. List NIH project grants, NIHK awards, portions of NIH program projects, SCOR or Center grants, NIH contracts, Veterans Administration funds, NSF grants, NASA grants, contracts from industry, grants from other non-federal health agencies (including AHA components), any funds available to you through other Investigators, and departmental/institutional support. For each entry, an overlap with this application and some description of the overlap could be requested. If so, please save that data to complete the support entry for submission.

To add an existing entry, click the '+' link and all entries previously saved in your Professional Profile will show. Please select the applicable support and save.

To add new Other Support entries, click the 'Create New Other Support' button. By default, this entry will be added to your profile, unless the option 'Add to Profile' is not selected.

AHA Policies on Alternative and Overlapping Funding:

Stipend Award Programs (AHA Predoctoral Fellowship, AHA Postdoctoral Fellowship Institutional Undergraduate Student Fellowship):

American Heart Association research funds will not be awarded to duplicate any work that is being supported by other funding agencies. Because the trainee receives only a stipend from the award, additional research support for the proposed project MUST come from the mentor's laboratory. A fellow is permitted to have project support from another funding source, if there is no overlapping budget item with the AHA Fellowship. AHA accepts that in this instance, some overlapping science may exist.

Grant Programs (Career Development Award, Collaborative Sciences Award, Established Investigator Award, Innovative Project Award, Merit Award, Transformational Project Award):

American Heart Association research funds will not be awarded to supplement or duplicate any work that is being supported by other funding agencies. They are intended to represent support for a well- defined, well-described research project.

Exception: The AHA will permit a Career Development Awardee to concurrently hold an NIH K award (except a K99) or to be in the R00 stage of a K99/R00 award, if there is no budgetary overlap.

Alternative (pending or planned applications)

An application must be identified as alternative if submitted to more than one granting agency for the same or closely related project and/or in which there are duplicated budgetary requests. The applicant must indicate if an American Heart Association grant application is an alternative.

After the grant application is reviewed by the American Heart Association, the alternative designation of the project or the budget cannot be changed to accommodate any partial alternative funding. The applicant is not permitted to adjust the scientific aims or budget of an American Heart Association application to accommodate any overlap resulting from funding of an alternative application by another funding agency. The applicant may accept only one award if more than one is to be approved for funding. After award activation, if a subsequent funding agency eliminates all overlap (scientific and budgetary), the awardee may keep the AHA award, pending review and approval by the Research Committee.

Overlap (active or approved applications)

An award must be identified as overlapping if it supports the same or a closely related project and/or in which there are duplicated budgetary requests. The applicant must indicate if the association grant application has scientific or budgetary overlap with an active or approved award. The applicant may accept the AHA grant only if he/she relinquishes the overlapping award. Use of association funds to supplement budgets for a project that is already receiving a substantial amount of extramural support is contrary to established association standards. Arbitrary compartmentalization of a large well-supported project into a discrete segment to compete for association funds will be critically examined.

Alternative/Overlap designation by AHA Research Committee

Whether the applicant has declared an application as alternative or overlapping, the Research Committee may deem an application "alternative" (a pending award) or "overlapping" (with an active award) if there is any duplication of scientific aims or budget. One-hundred percent duplication between applications is not a requirement for an application to be deemed "overlapping."

List all research project support available to you (active, approved, or pending) for funding. List NIH project grants, NIH K awards, portions of NIH program projects, SCOR or Center grants, NIH contracts, Veterans Administration funds, NSF grants, NASA grants, contracts from industry, grants from other non-federal health agencies (including AHA components), any funds available to you through other Investigators, and departmental/institutional support.

Do not mark departmental/institutional support as alternative to the AHA application.

Unless stated in the AHA program description, the alternative designation of the project or the budget may not be changed to accommodate partial alternative funding from another source. The applicant is not permitted to adjust the scientific aims or budget of an AHA application to accommodate overlap resulting from funding of an alternative application by another funding agency. One hundred percent (100%) duplication between applications is not a requirement for an application to be deemed alternative or overlapping. The applicant may accept only one award if more than one is to be approved for funding. After award activation, if a subsequent funding agency eliminates all overlap (scientific and budgetary), the awardee may keep the Association award, pending review and approval by the Research Committee.

13 Organization Assurances

Assurance numbers cannot be entered on this screen – they will appear only if properly entered in the institution profile (for the institution you selected in the institution section of the proposal). If no assurance number appears here, please contact your institution’s grants and contacts office to have them add the assurance numbers to the institution profile. If you need assistance, contact proposalCENTRAL customer support.

The applicant must answer the questions regarding experimentation in the proposed research project. Visit our website for more information about [AHA policies](#).

Ethical aspects of the proposed research are to be addressed in the subject use approval documents that are to be uploaded into the proposal (animal subjects use is uploaded as part of the application; human subject approval and consent forms are just-in-time documents that are due prior to award activation). Describe any special circumstance or issue of note in the proposed research plan.

a. Adult Human Stem Cells

The American Heart Association funds human adult stem cell research. This research is governed by the standards described in “Ethical Aspects of Research with Human Subjects and Animals.” These standards shall be applied by the AHA in funding any research involving human adult stem cells. Applications involving human adult stem cells fall under the just-in-time Institutional Review Board (IRB)/Privacy Board assurance policy described above under human subjects.

b. Cloning

The AHA funds cloning research including human DNA sequences, cell lines and animals subject to ethical principles and restrictions to prevent abuse.

- *Acceptable research*

Acceptable research involves cloning to generate animal models (such as transgenic animals) which express human disease for research use:

- to develop specific treatments for persons suffering from diseases, and
- to produce tissue or organs for transplantation to replace or augment damaged or diseased tissues or organs in humans.

- Areas ineligible for AHA funding

Cloning of humans as asexual reproduction or cloning of humans intended as sources of tissue or organs to harvest are not acceptable. However, the Association will fund research using human cell lines and DNA sequences for purposes of producing tissue or organs for transplantation to replace or augment damaged or diseased tissues or organs in humans.

c. Human Subjects

Answer 'no' if you will use data or tissue samples that were previously collected. If you will use new human subjects for this project, an approval letter will be required at the time of award activation.

If the proposed research project involves human subjects, the population sampled shall be inclusive of the general population, of relevance to the scientific question posed, without restriction regarding gender, race, age, and socioeconomic status. Proposals that intentionally restrict the population sampled must include a compelling scientific rationale for such research design and should be explained in the Proposed Research Plan.

Each applicant is strongly encouraged to submit his/her project to the appropriate human subjects Institutional Review Board/Privacy Board at the time of application. Funded applicants will have a maximum time of three months following the original activation date to submit the IRB human subjects approval and approved patient consent form for their projects to the AHA. (For example, if the activation date is January 1, IRB approval and approved patient consent form must be received prior to March 31; if the activation date is July 1, IRB approval and approved patient consent form must be received prior to September 30.) If the IRB approval and approved patient consent form are not provided to the AHA within three months of the originally posted activation date, the award must be relinquished; there are no exceptions.

Any significant change in the scientific research plan or scope/aims of the project after submission to AHA must be reported to the AHA when submitting the just-in-time IRB/Privacy Board approval.

d. Human Embryonic Stem Cells or Fetal Stem Cells

If your answer is "Yes", you are not eligible to apply. Research applications involving the creation of human embryos or the derivation or use of human stem cells from in vitro fertilization (IVF) treatment embryos or fetal sources will not be accepted.

e. Human Fetal Tissue

The AHA does not fund scientific research that involves the use of human fetal tissue.

f. Animal Subjects

If you answer "Yes" to the Animal Subjects section, then AAALAC or PHS information must be provided. If your proposal involves animals and your institution does not have unqualified accreditation from the Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC) or does not hold a current Public Health Service (PHS) Animal Welfare Assurance, you are not eligible to apply.

If you answer "Yes" to Vertebrate Animals, you must create a document titled, VERTEBRATE ANIMAL SUBJECTS. See Formatting and Page Requirements these instructions for page set-up guidelines.

Address the following five points. When research involving vertebrate animals will take place at collaborating site(s) or other performance site(s), provide this information before discussing the five points.

1. Provide a description of the proposed use of the animals in the work outlined in the

Research Design and Methods section. Identify the species, strains, ages, sex, and numbers of animals to be used in the proposed work.

2. Justify the use of animals, the choice of species, and the numbers to be used. If animals are in short supply, costly, or to be used in large numbers, provide an additional rationale for their selection and numbers.
3. Provide information on the veterinary care of the animals involved.
4. Describe the procedures for ensuring that discomfort, distress, pain, and injury will be limited to that which is unavoidable in the conduct of scientifically sound research. Describe the use of analgesic, anesthetic, and tranquilizing drugs, and/or comfortable restraining devices, where appropriate, to minimize discomfort, distress, pain, and injury.
5. Describe any method of euthanasia to be used and the reasons for its selection. State whether this method is consistent with the recommendations of the Panel on Euthanasia of the American Veterinary Medical Association. If not, present a justification for not following the recommendations.

Convert your Word document to Portable Document Format (pdf) and upload in the "Upload Attachments" section. The system will only accept a .pdf file.

Institutional Award for Undergraduate Student Training Program Directors:

You do not need to upload this document into the proposal. Instead, please email it to apply@heart.org and reference your AHA Application ID number on the subject line.

A-TRAC Pilot Program applicants do not need to upload the file into the proposal.

The AHA has adopted just-in-time IACUC assurances for animal subjects. Each applicant is strongly encouraged to submit his/her project to the appropriate animal care and use committee at the time of application; it is not a requirement that IACUC approval be deferred. Funded applicants will have a maximum time of three months following the original activation date to submit the IACUC approval for their projects to the AHA. (For example, if the activation date is July 1, IACUC approval must be received prior to September 30.) If the IACUC approval is not provided to the AHA within three months of the originally posted activation date, the award must be relinquished. There are no exceptions.

Any significant change in the scientific research plan or scope/aims of the project after AHA submission must be reported to the AHA when submitting the just-in-time IACUC approval.

14 Upload Attachments

Attachments required for each program type – and templates, if required – are listed on the AHA [Required Application Documents](#) page.

NOTE: YOU MUST ATTACH THIRD-PARTY PERSONNEL REQUIRED APPLICATION DOCUMENTS ON THE THIRD-PARTY PERSONNEL SCREEN. Third party document status is listed on this screen only for your information. This screen lists the documents that have been uploaded and required attachments that have not been uploaded. Optional attachments that have not been uploaded are not shown.

15 Open Science

The AHA requires grant applicants to include a data sharing plan as part of the application. Any research data that is needed for independent verification of research results must be made freely and publicly available within 12 months of the end of the funding period (and any no-cost extension). Please provide the following:

Research Output (2050-character limit): Please describe the data (i.e., recorded factual material) that would be necessary to validate your research findings. This should just be a few sentences that describe the data and accompanying metadata. Please do not reference potential publication or presentation of your results.

Approximate date of when the data will be shared
Where will the data be made available? Select all that apply from the drop-down menu.

Explain any limits to data sharing that might be required (1000-character limit)

Refer to the [Open Science Policy Statements for AHA Funded Research](#) for more information.

16 Validate

Click the 'Validate' button below to check for any missing REQUIRED information or files. All missing required information will be listed on the screen. Please correct any missing information before proceeding to the next step.

17 Signature Page(s)

The AHA does not accept any printed application material.

Printing: If you wish to print After you complete all the proposal sections, click one of the Print buttons on this page to open and print the cover/signature pages and application files.

Click "Print Signatures Pages" to print only the signature pages. Clicking the print button will open the cover/signature pages in PDF format. Data that you entered in the other sections of the proposal are automatically included in the cover/signature pages. If information is missing in the cover/signature pages, it could be because you have not entered the information in one of the proposal sections OR the information is not required for this grant program.

Click "Print Signature Pages with Attachments" to print the signature pages with attachment files.

- Before printing, please use the 'Validate' option (in the navigation menu to the left) to verify that you have entered all the required information.
- You must have the FREE Adobe Acrobat Reader installed to view either of the above options.
- Attention Apple/Mac users: The default Apple PDF viewer will not work properly. Download the latest version of the Acrobat Reader from Adobe at <http://www.adobe.com/products/acrobat/readermain.html>

Signatures: The Applicant and Grant Officer are to type their names in the signature box, exactly as it appears on this application. Click the "sign" button. If successful, the date and time signed will appear to the right of the signature line.

18 Submit

To submit your Proposal, please click the 'Submit' button. You will be unable to submit if you have not provided all the required information. Any missing information will be listed on the screen. If your submission is successful, you will receive a confirmation message on the screen and a confirmation email will be sent to the applicant.

Once the application is submitted to AHA, no changes can be made.

After the application deadline, no supplementary material (additional preliminary data, new publications, etc.) will be accepted unless requested by AHA staff. However, if a publication listed as pending is accepted after the application is submitted, you may notify AHA via apply@heart.org and attach the acceptance letter (but not the publication). You must first obtain consent from your grants officer before contacting AHA.

Submitted applications will be reviewed based upon the peer review and eligibility criteria for the research application program the applicant selected. The program cannot be changed once an application is submitted.

Important Notice:

Verify that the status of your application has changed to "Submitted".

For best results, log out and close all ProposalCentral browser windows.

Log in and select the "Proposals" tab, and then select "Submitted" from the Proposal Status dropdown list. Once properly submitted, your application no longer appears on your Home tab.

Document Uploads

The documents required vary by program. The sections required for the application will be visible in ProposalCentral automatically. A list of the required documents with instructions, format and page requirements for all programs can be found on our website on the [Required Application Documents page](#). Applicants must comply with stated page limits for the program. A document that exceeds a program's page limit will be rejected by ProposalCentral

A. Biographical Sketch

(5-page limit) *Use of an NIH-style biographical sketch is required for AHA programs*. Convert the biographical sketch to Portable Document Format (PDF) prior to uploading it.

> AHA Predoctoral Fellowship and AHA Postdoctoral Fellowship applicants: The AHA requires a statement on career goals in "Section A. Personal Statement." Career goals should reflect the applicant's true plans and are not required by AHA to be traditional academic or clinical research work.

> Collaborative Sciences Award: Each co-principal investigator should provide a biosketch. Each Co-PI must upload their own biosketch (5-page maximum per biosketch).

Biographical Sketch

Submit NIH OMB No. 0925-0001 and 0925-0002 (Rev. 09/17 Approved Through 03/31/2020).

If you do not have an NIH biographical sketch, you may create one using the format and illustration below.

Begin with entry into college and include postdoctoral training. Enter as many rows as needed. Figures, tables (other than those included in the provided format pages), or graphics are not allowed in the biosketch. Do not embed or attach files (e.g. video, graphics, sound, data). The biosketch may not exceed five pages per person. This five-page limit includes the Education and Training table at the top of the first page.

Name: Fill in your name as it appears in professional correspondence and publications.

eRA Commons User Name: Complete this field if you are registered in the NIH's [eRA Commons](#). The "eRA Commons Username" field is optional for AHA proposals.

Position Title: Fill in your academic position or professional title.

Education: Create a four-column table, as in the example below. Begin with the baccalaureate or other initial professional education, such as nursing. Include postdoctoral, residency, and clinical fellowship training, as applicable, listing each separately.

For each entry provide:

- the name and location of the institution
- the degree received (if applicable)
- the month and year of end date (or expected end date).
For fellowship applicants only, also include the month and year of start date.
- the field of study (for residency entries, the field of study should reflect the area of residency training)

Following the education block, complete Sections A-D of the biographical sketch.

A. Personal Statement

Briefly describe why you are well-suited for your role(s) in this project. Relevant factors may include aspects of your training; your previous experimental work on this specific topic or related topics; your technical expertise; your collaborators or scientific environment; and/or your past performance in this or related fields.

- **Applicants for AHA Predoctoral Fellowships and AHA Postdoctoral Fellowships should state their career goals. Career goals should reflect the applicant's true plans and are not required by AHA to be traditional academic or clinical research work.**
- **If public sharing of your research outputs such as data, code, or material led to scientific advances by others, you are encouraged to detail that as well.**

You may cite up to four publications or research products that highlight your experience and qualifications for this project. Research products can include, but are not limited to, audio or video products; conference proceedings such as meeting abstracts, posters, or other presentations; patents; data and research materials; databases; educational aids or curricula; instruments or equipment; models; protocols; and software or netware.

You may cite interim research products. **Note:** Interim research products have specific citation requirements. See the NIH's related [Frequently Asked Questions](#) for more information.

- If you wish to explain factors that affected your past productivity, such as family care responsibilities, illness, disability, or military service, you may address them in this "A. Personal Statement" section.
- Indicate whether you have published or created research products under another name.
- You may mention specific contributions to science that are not included in Section C. Do not present or expand on materials that should be described in other sections of this Biosketch or application.
- Figures, tables, or graphics are not allowed.

B. Positions and Honors

List in chronological order the positions you have held that are relevant to this application, concluding with your present position. High school students and undergraduates may include any previous positions. For individuals who are not currently located at the applicant organization, include the expected position at the applicant organization and the expected start date.

List any relevant academic and professional achievements and honors. In particular:

- Students, post doctorates, and junior faculty should include scholarships, traineeships, fellowships, and development awards, as applicable.
- Clinicians should include information on any clinical licensures and specialty board certifications that they have achieved.

C. Contributions to Science

All senior/key persons should complete the "Contributions to Science," except high school students, undergraduates, and post-baccalaureates.

Briefly describe up to five of your most significant contributions to science. The description of each contribution should be no longer than one half page, including citations.

While all applicants may describe up to five contributions, graduate students and post doctorates may wish to consider highlighting two or three they consider most significant.

For each contribution, indicate the following:

- the historical background that frames the scientific problem;
- the central finding(s);
- the influence of the finding(s) on the progress of science or the application of those finding(s) to health or technology; and
- your specific role in the described work.

If (public) sharing of your research outputs such as data, code, or material led to scientific advances by others, you are encouraged to detail that as well.

For each contribution, you may cite up to four publications or research products that are relevant to the contribution. If you are not the author of the product, indicate what your role or contribution was. Note that while you may mention manuscripts that have not yet been accepted for publication as part of your contribution, you may cite only published papers to support each contribution. Research products can include audio or video products (see the [NIH Grants Policy Statement, Section 2.3.7.7: Post-Submission Grant Application Materials](#)); conference proceedings such as meeting abstracts, posters, or other presentations; patents; data and research materials; databases; educational aids or curricula; instruments or equipment; models; protocols; and software or netware.

You may cite interim research products. Note: Interim research products have specific citation requirements. See the NIH's related [Frequently Asked Questions](#) for more information.

You may provide a URL to a full list of your published work. This URL must be to a Federal Government website (a .gov suffix). NIH recommends using [My Bibliography](#). Providing a URL to a list of published work is not required.

Descriptions of contributions may include a mention of research products under development, such as manuscripts that have not yet been accepted for publication. These contributions do not have to be related to the project proposed in this application.

D. Additional Information: Research Support and/or Scholastic Performance

Note the following instructions for specific subsets of applicants/candidates:

- High school students are *not* required to complete Section D.
- Predoctoral and Postdoctoral Fellowship applicants can skip the "Research Support" section and must complete **only** the "Scholastic Performance" section. However, when these applicants also have Research Support, they may complete both sections
- All other AHA award applicants should complete the "Research Support" section but skip the "Scholastic Performance" section.

Research Support

These instructions apply to all applicants who are completing the "Research Support" section.

List ongoing and completed research projects from the past three years that you want to draw attention to. Briefly indicate the overall goals of the projects and your responsibilities. Do not include the number of person months or direct costs.

Do not confuse "Research Support" with "Funds Available."

- **Research Support:** As part of the Biosketch section of the application, "Research Support" highlights your accomplishments, and those of your colleagues, as scientists. This information will be used by the reviewers to assess each person's qualifications for a specific role in the proposed project, and to evaluate the overall qualifications of the research team.
- **Funds Available:** The AHA application contains a separate section to report alternative (pending or planned) and overlapping (approved or active) funding.

Scholastic Performance

Predoctoral applicants/candidates (including undergraduates and post-baccalaureates):

List by institution and year **all** undergraduate and graduate courses, with grades. In addition, explain any grading system used if it differs from a 1-100 scale; an A, B, C, D, F system; or a 0-4.0 scale. Also indicate the levels required for a passing grade.

Postdoctoral applicants: List by institution and year **all** graduate scientific and/or professional courses with grades. In addition, explain any grading system used if it differs from a 1-100 scale; an A, B, C, D, F system; or a 0-4.0 scale. Also indicate the levels required for a passing grade.

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME:

eRA COMMONS USERNAME (credential, e.g., agency login):

POSITION TITLE:

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows, as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY

- A. Personal Statement**

- B. Positions and Honors**

- C. Contributions to Science**

- D. Additional Information: Research Support and/or Scholastic Performance**

YEAR	COURSE TITLE	GRADE

B. Career Development Plan

(3 pages maximum) - Applicants for the Career Development Award ONLY are required to submit a comprehensive career development plan that includes:

- Primary career intention – AHA does not require this to be a traditional academic research or health profession track. For example, an applicant might wish to pursue a career in industry, technology, teaching, or public health, etc.
- Long-term professional goals (such as positions desired or other specific professional goals, such as ‘write a book’).
- Explicit short-term goals that contribute to long-term interests and the most important anticipated challenges that must be mitigated/overcome to reach these goals.
- Timeline and 2-3 metrics that will define success in reaching each goal.
- Describe training or experiences you will develop to contribute to and ensure that long term goals are achieved.
- Describe which aspects of your current work/job will be delegated to others to accomplish the early career training and tasks necessary to achieve your goals.
- Identify additional skills, knowledge or experience you will need to acquire that may directly or indirectly help you in your current job or future positions, and how you plan to ensure that this occurs.
- Specifically delineate when and how progress assessments/checkpoints will occur, particularly with each member of your mentoring team (e.g., memos, phone calls, meetings) and what developmental activities will be completed or discussed at these times.
- Provide letters of support from each mentoring team member that indicate he/she understands his/her role and commitment to you as the early career investigator.

Resources -- AHA does not endorse resources. These resources are offered for applicants' reference.

[How and Why to Write a Career Development Plan | Robert Half](https://www.roberthalf.com/blog/how-and-why-to-write-a-career-development-plan)

<https://www.roberthalf.com/blog/how-and-why-to-write-a-career-development-plan>

[Guide to Writing a Career Development Plan](https://performancemanager.successfactors.com/doc/po/develop_employee/carguide.html)

https://performancemanager.successfactors.com/doc/po/develop_employee/carguide.html

C. Proposed Research Plan/Letter of Intent Instructions

Research Plans and Letters of Intent must be created as a Word documents and then saved as Portable Document Format (PDF) files. Only PDF files will be accepted by the ProposalCentral system.

The length of the Letter of Intent and Research Plan varies by program. Specific limits are listed below. Documents that exceed the page limit cannot be uploaded.

Before beginning the Letter of Intent or the Research Plan, review the [program description](#) noting especially the qualifications and any restrictions for the program to which you are applying. The Research Plan should address all of the peer review criteria, which are included in the [program description](#).

Note: Submission of an application to the AHA with identical or significantly similar content as another investigator is prohibited. Although your project may study the same or a similar issue/problem as another investigator, your research proposal should be your own original/creative writing. You should cite all information taken from another researcher or publication. Failure to do so may result in your proposal being flagged for Ethical Disapproval due to plagiarism. Also, the submission of applications with identical or significantly similar content from a sponsor to a project support program and his/her fellow to fellowship program is prohibited. Both applications will receive a recommendation for “disapproval”. Applications submitted by a sponsor and his/her fellow may both be funded if there is no duplication of aims.

Type the research plan specifically following the outline given below for the program to which you are applying, in the same sequence. All items should be addressed. Indicate N/A or None if not applicable to this application.

Page Limits

AHA Foundational Research Awards	Letter of Intent (if required)	Proposed Research Plan
AHA Institutional Research Enhancement Award		8
ASA/Bugher Foundation Award	5	17
Career Development Award		8
Collaborative Sciences Award	3	10
Established Investigator Award	2	8
Innovative Project Award	1	5
Institutional Award for Undergraduate Training (Implementation Plan)		12
Merit Award	2	6
Predoctoral Fellowship		5
Postdoctoral Fellowship		5
Transformational Project Award		8

For strategically focused and special awards, please refer to the RFAs.

AHA Predoctoral Fellowship and AHA Postdoctoral Fellowship

Proposed Research Plan, 5-page limit

Type the research plan specifically following the outline given below, in the same sequence. All items should be addressed. Indicate N/A or None if not applicable to this application. The entire proposed research plan must not exceed the five-page limit.

Important: If you are applying for only one year of support, state this in the research plan.

1. Specific Aims

Provide a clear, concise summary of the aims of the work proposed and its relationship to your long-term goals. Note the significance and innovation of your research; then list two to three concrete objectives.

2. Research Strategy

Describe your research rationale and the experiments you will conduct to accomplish each aim. Structure as follows:

Significance: Sketch the background leading to this application. Summarize important results outlined by others in the same field, critically evaluating existing knowledge. Identify gaps that this project is intended to fill.

State concisely the importance and relevance of the research to cardiovascular and/or cerebrovascular function or disease, or to related fundamental problems. Also, it is incumbent upon the applicant to make a clear link between the project and the mission of the AHA. The significance section will be assessed in terms of potential impact on the AHA mission; this will be factored into the overall priority score as noted in the peer review criteria.

Preliminary Studies: Describe concisely previous work related to the proposed research by the applicant that will help to establish the experience and competence of the investigator to pursue the proposed project. Include pilot studies showing the work is feasible. (If none, so state.)

Approach: Description of proposed tests, methods or procedures should be explicit, sufficiently detailed, and well defined to allow adequate evaluation of the approach to the problem. Describe any new methodology and its advantage over existing methodologies.

Clearly describe overall design of the study, with careful consideration to statistical aspects of the approach, the adequacy of controls, and number of observations, as well as how results will be analyzed. Include details of any collaborative arrangements that have been made.

Discuss the potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the aims.

Ethical aspects of the proposed research are to be addressed in the subject use approval documents. Describe any special ethical circumstance or issue of note in the proposed research plan.

- Animal subject use documents are to be uploaded into the Research Assurances section of the application.
- Human subject approval and consent forms are just-in-time documents that are submitted for funded projects prior to award activation.

If the proposed research project involves human subjects, the population sampled shall be inclusive of the general population, of relevance to the scientific question posed, without restriction regarding gender, race, age, and socioeconomic status. Proposals that intentionally restrict the population sampled must include a compelling scientific rationale for such research design as part of the proposed research plan. There is not a separate upload for this explanation; it must be included within the allowable page limit for your proposal.

AHA Institutional Research Enhancement Award (AIREA)

Proposed Research Plan, 8-page limit

1. Specific Aims

Provide a clear, concise summary of the aims of the work proposed and its relationship to your long-term goals. State the hypothesis to be tested.

2. Background and Significance

Sketch the background leading to this application. Summarize important results outlined by others in the same field, critically evaluating existing knowledge. Identify gaps that this project is intended to fill.

State concisely the importance and relevance of the research to cardiovascular and/or cerebrovascular function or disease, or to related fundamental problems. Also, it is incumbent upon the applicant to make a clear link between the project and the mission of the AHA. The significance section will be assessed in terms of potential impact on the AHA mission; this will be factored into the overall priority score as noted in the peer review criteria.

3. Preliminary Studies

Describe concisely previous work by the applicant related to the proposed research that will help to establish the experience and competence of the investigator to pursue the proposed project. Include pilot studies showing the work is feasible. (If none, so state.)

4. Research Design and Methods

Description of proposed tests, methods or procedures should be explicit, sufficiently detailed, and well-defined to allow adequate evaluation of the approach to the problem. Describe any new methodology and its advantage over existing methodologies.

Clearly describe overall design of the study, with careful consideration to statistical aspects of the approach, the adequacy of controls, and number of observations, as well as how results will be analyzed. Include details of any collaborative arrangements that have been made.

Discuss the potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the aims.

Describe how the project will stimulate the interest or involvement of students.

Ethical aspects of the proposed research are to be addressed in the subject use approval documents. Describe any special ethical circumstance or issue of note in the proposed research plan.

- Animal subject use documents are to be uploaded into the Research Assurances section of the application.
- Human subject approval and consent forms are just-in-time documents that are submitted for funded projects prior to award activation.

If the proposed research project involves human subjects, the population sampled shall be inclusive of the general population, of relevance to the scientific question posed, without restriction regarding gender, race, age, and socioeconomic status. Proposals that intentionally restrict the population sampled must include a compelling scientific rationale for such research design as part of the proposed research plan. There is not a separate upload for this explanation; it must be included within the allowable page limit for your proposal.

ASA/Bugher Foundation Awards

The intent of this initiative is to support a collaboration of basic, clinical and/or population researchers from different disciplines. The Centers within the Network will propose projects related to a specific, targeted topic of research. Refer to the RFA for specific details regarding the focused topic and program requirements.

Each applicant will submit a Center application and a specified number of Project applications.

Required documents for submission may include:

Letter of Intent (LOI) (5 pages)

CENTER

- Applicant/PI Biosketch (5 pages)
- Budget Justification (2 pages)
- Research Project Environment (2 pages)
- Literature Cited (no limit)
- Center Science Vision and Synergy (8 pages)
- Center Collaboration (5 pages)
- Current Postdoctoral Training Program (no limit)
- Proposed Multidisciplinary Training Program (8 pages)
- Center Director Qualifications (2 pages)
- Center Administrative Structure (2 pages)
- Publications (up to 3 separate uploads, no page limits)

PROJECT

- Applicant/PI Biosketch (5 pages)
- Budget Justification (2 pages)
- Research Project Environment (2 pages)
- Publication (up to 3 separate uploads, no page limits)
- Research Plan (17 pages)
- Literature Cited (no page limit)
- Center Director's Vision and Synergy (8 pages)

Career Development Award

8-page limit -- Address the following topics, and how the members of your Mentoring Team will assist with each aspect.

1. Specific Aims

Provide a clear, concise summary of the aims of the work proposed and its relationship to your long-term goals. State the hypothesis to be tested.

2. Background and Significance

Sketch the background leading to this application. Summarize important results outlined by others in the same field, critically evaluating existing knowledge. Identify gaps that this project is intended to fill.

State concisely the importance and relevance of the research to cardiovascular and/or cerebrovascular function or disease, or to related fundamental problems. Also, it is incumbent upon the applicant to make a clear link between the project and the mission of the AHA. The significance section will be assessed in terms of potential impact on the AHA mission; this will be factored into the overall priority score as noted in the peer review criteria.

3. Preliminary Studies

Describe concisely previous work related to the proposed research by the applicant that will help to establish the experience and competence of the investigator to pursue the proposed project. Include pilot studies showing the work is feasible. (If none, so state.)

4. Research Design and Methods

Description of proposed tests, methods or procedures should be explicit, sufficiently detailed, and well defined to allow adequate evaluation of the approach to the problem. Describe any new methodology and its advantage over existing methodologies.

Clearly describe overall design of the study, with careful consideration to statistical aspects of the approach, the adequacy of controls, and number of observations, as well as how results will be analyzed. Include details of any collaborative arrangements that have been made.

Discuss the potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the aims.

Ethical aspects of the proposed research are to be addressed in the subject use approval documents. Describe any special ethical circumstance or issue of note in the proposed research plan.

- Animal subject use documents are to be uploaded into the Research Assurances section of the application.
- Human subject approval and consent forms are just-in-time documents that are submitted for funded projects prior to award activation.

If the proposed research project involves human subjects, the population sampled shall be inclusive of the general population, of relevance to the scientific question posed, without restriction regarding gender, race, age, and socioeconomic status. Proposals that intentionally restrict the population sampled must include a compelling scientific rationale for such research design as part of the proposed research plan. There is not a separate upload for this explanation; it must be included within the allowable page limit for your proposal.

Collaborative Sciences Award
Letter of Intent, 5-page limit.

A letter of intent (LOI) is required to ensure responsiveness to the novel, collaborative nature of this program. The novel relationship and proposed collaboration of investigators from at least two widely disparate disciplines will be given the most weight in evaluating the LOI to determine which teams will be invited to submit full applications.

The letter must describe the specific inclusion of at least one early or mid-career Co-PI, and an innovative, collaborative approach to research which incorporates a novel grouping of investigators from at least two widely disparate disciplines and/or areas of expertise. The written summary must focus on the collaborative relationship of the investigators, such that the scientific objectives cannot be achieved without the efforts of at least two co-principal investigators and their respective disciplines and expertise. If any of the Co-PIs have collaborated in the past, explain how this collaboration is different from previous interactions. The combination and integration of studies may be inclusive of basic, clinical, population, behavioral, and/or translational research.

LOIs to the Collaborative Sciences Award will be assigned to a group of multidisciplinary reviewers. Your application may be reviewed by someone working in a related area and/or experts directly related to your science area. Aim the LOI at both the expert in the field and at the generalist. The LOI should be appropriate for reviewers who have a broad knowledge of the scientific area.

Proposed Research Plan, 10-page limit.

After submitting a Letter of Intent, if you are invited to submit a full application:

The proposal must expand on the Letter of Intent, detailing the collaborative relationship, such that the scientific objectives cannot be achieved without the efforts of at least two co-principal investigators and their respective disciplines and expertise. The combination and integration of studies may be inclusive of basic, clinical, population, behavioral, and/or translational research.

1. Specific Aims

Provide a clear, concise summary of the aims of the work proposed and its relationship to your long-term goals. State the hypothesis to be tested.

2. Background and Significance

Sketch the background leading to this application. Summarize important results outlined by others in the same field, critically evaluating existing knowledge. Identify gaps that this project is intended to fill.

State concisely the importance and relevance of the research to cardiovascular and/or cerebrovascular function or disease, or to related fundamental problems. Also, it is incumbent upon the applicant to make a clear link between the project and the mission of the AHA. The significance section will be assessed in terms of potential impact on the AHA mission; this will be factored into the overall priority score as noted in the peer review criteria.

3. Preliminary Studies

Describe concisely previous work related to the proposed research by the applicant that will help to establish the experience and competence of the investigator to pursue the proposed project. Include pilot studies showing the work is feasible. (If none, so state.)

4. Research Design and Methods

Description of proposed tests, methods or procedures should be explicit, sufficiently detailed, and well defined to allow adequate evaluation of the approach to the problem. Describe any new methodology and its advantage over existing methodologies.

Clearly describe overall design of the study, with careful consideration to statistical aspects of the approach, the adequacy of controls, and number of observations, as well as how results will be analyzed. Include details of any collaborative arrangements that have been made.

Discuss the potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the aims.

Ethical aspects of the proposed research are to be addressed in the subject use approval documents. Describe any special ethical circumstance or issue of note in the proposed research plan.

- Animal subject use documents are to be uploaded into the Research Assurances section of the application.
- Human subject approval and consent forms are just-in-time documents that are submitted for funded projects prior to award activation.

If the proposed research project involves human subjects, the population sampled shall be inclusive of the general population, of relevance to the scientific question posed, without restriction regarding gender, race, age, and socioeconomic status. Proposals that intentionally restrict the population sampled must include a compelling scientific rationale for such research design as part of the proposed research plan. There is not a separate upload for this explanation; it must be included within the allowable page limit for your proposal.

Established Investigator Award

Letter of Intent, 2-page limit.

AHA will contact applicants with the highest-rated LOIs and invite them to submit a full application. Applicants will receive no reviewer feedback on letters of intent.

A Letter of Intent (LOI), limited to two (2) pages, should briefly describe why the AHA should invest in your proposed vision for the future in terms of the following:

- Likelihood of transforming and advancing the future of CV and stroke science.
- Potential to move your research into emerging and/or difficult areas of inquiry, being consistently at its forefront.
- Ability to develop new tools and methods that support creative experimental approaches to questions, encompassing concepts or techniques from other disciplines.
- Capacity to forge links between disparate disciplines.
- Strong track record of collaboration with other distinguished scientists across disciplines.
- Evidence of great promise for future original and innovative contributions.
- Demonstrated commitment to the mission of the American Heart Association and to advancing the ideals and guiding principles through volunteer service.

Proposed Research Plan, 8-page limit.

After submitting a Letter of Intent, if you are invited to submit a full application:

1. The Established Investigator Award (EIA) abbreviated proposal format is not the same as those used for other AHA grants or individual NIH research grants (R01). The 10 pages of the proposal in the EIA describe past research accomplishments, the potential of the EIA to provide new directions and innovations, and broadly discuss projected research studies. The application should not contain detailed protocols or focus heavily on the design or interpretation of individual experiments. The applicant should clarify how this proposal differs from other funded projects, or how these funds will be used to expand upon other projects.

Describe past research accomplishments, the potential of the EIA to provide new directions and innovations, and broadly discuss projected research studies.

The application should not contain detailed protocols or focus heavily on the design or interpretation of individual experiments.

2. Clarify how this proposal differs from other funded projects, or how these funds will be used to expand upon other projects.

Innovative Project Award

Letter of Intent, 1-page limit

A Letter of Intent (LOI), limited to one (1) page, will be required. This pre-proposal should briefly address the following points.

- Clearly and explicitly articulate the project's innovation and the potential impact on cardiovascular and/or cerebrovascular research.
- The Innovative Project Award (IPA) promotes unexplored ideas; therefore, if you include information about preliminary work, then the proposal is not innovative. You may refer to previous projects you have conducted to demonstrate that you possess a competency or technique that equips you to take on this new direction. Proposals may also refer to existing, unanalyzed datasets and the types of data they contain (e.g., geospatial, demographic, billing, molecular) that could be leveraged in conducting the proposed work, but there should be no preliminary descriptive summaries of the data itself.
- How your proposed project will introduce a new paradigm, challenge current paradigms, look at existing problems from new perspectives, or exhibit other uniquely creative qualities.
- Provide a solid rationale for the work.
- Discuss new avenues of investigation that will be revealed, if successful.

Proposed Research Plan, 5-page limit.

After submitting a Letter of Intent/Pre-proposal, if you are invited to submit a full application, the proposal must expand on the Letter of Intent and will be judged heavily on innovation and impact on the AHA mission.

1. Specific Aims

Provide a clear, concise summary of the aims of the work proposed and its relationship to your long-term goals. State the hypothesis to be tested.

2. Background and Significance

The Innovative Project Award (IPA) promotes unexplored ideas; therefore, preliminary data is not required and not accepted as part of the proposal. However, a solid rationale for the work must be provided. If you provide preliminary data, the application will be disqualified.

You may cite previous projects to demonstrate that you possess a competency or technique that equips you to take on this new direction. Proposals may cite existing, unanalyzed data. Sketch the background leading to this application. Summarize important results outlined by others in the same field, critically evaluating existing knowledge. Identify gaps that this project is intended to fill.

State concisely the importance and relevance of the research to cardiovascular and/or cerebrovascular function or disease, or to related fundamental problems. Also, it is incumbent upon the applicant to make a clear link between the project and the mission of the AHA. The significance section will be assessed in terms of potential impact on the AHA mission; this will be factored into the overall priority score as noted in the peer review criteria.

3. Research Design and Methods

Description of proposed tests, methods or procedures should be explicit, sufficiently detailed, and well defined to allow adequate evaluation of the approach to the problem. Describe any new methodology and its advantage over existing methodologies.

Clearly describe overall design of the study, with careful consideration to statistical aspects

of the approach, the adequacy of controls, and number of observations, as well as how results will be analyzed. Include details of any collaborative arrangements that have been made.

Discuss the potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the aims.

Ethical aspects of the proposed research are to be addressed in the subject use approval documents. Describe any special ethical circumstance or issue of note in the proposed research plan.

- Animal subject use documents are to be uploaded into the Research Assurances section of the application.
- Human subject approval and consent forms are just-in-time documents that are submitted for funded projects prior to award activation.

If the proposed research project involves human subjects, the population sampled shall be inclusive of the general population, of relevance to the scientific question posed, without restriction regarding gender, race, age, and socioeconomic status. Proposals that intentionally restrict the population sampled must include a compelling scientific rationale for such research design as part of the proposed research plan. There is not a separate upload for this explanation; it must be included within the allowable page limit for your proposal.

Institutional Award for Undergraduate Training

This program requires an Implementation Plan, as outlined below, 12-page limit.

1. Provide a history of the institution's student training program. Include a description of institutional support that is available to sponsors and students.
2. List the training opportunities available to students, including potential sponsors. Provide brief details about each sponsor's background, nature of work, training plan for a student, and research project environment. **The Program Director (applicant) should synthesize information about all proposed sponsors into this one document, rather than requiring a separate set of information from each sponsor.**
3. Outline how potential student awardees will be identified and recruited. The student recruitment plan must be open to students at any school, who will be assigned a sponsor at the awarded institution for the 10-week experience. The institution is strongly encouraged to recruit students from racial and ethnic groups that are underrepresented in science (Black/African American, Hispanic/Latino, Native American, Pacific Islander).
 1. Provide the procedure that sponsor/student teams will follow to compete for AHA funds granted to the institution.
 4. Detail the enrichment activities that will be available to the student trainees.
 5. Submit a plan for obtaining annual feedback from current and former trainees to assess the quality and effectiveness of the fellowship experience.

Merit Award

Letter of Intent, 2-page limit

Proposal, 6-page limit.

After submitting a Letter of Intent, if you are invited to submit a full application, refer to this web page for detailed application instructions:

http://professional.heart.org/professional/ResearchPrograms/UCM_479715_Merit-Award-Invited-Applicant-Instructions.jsp

Upload the following documents into the Science/Evaluation section

1. Major Research Achievements (1 pg. limit)

A summary of the applicant's major research achievements. This should be written so that a non-scientist reviewer can readily understand the summary.

2. Ongoing and Planned Research Progress and Future Vision (8 pg. limit)

A summary of the applicant's ongoing and planned research program and a statement of why the AHA should support the applicant's research (references and up to one page of figures are counted toward the 6-page limit).

This section should build upon the letter of intent by focusing on how the proposed research would

- transform and advance the future of cardiovascular and/or cerebrovascular science;
- move into emerging and/or difficult areas of inquiry, being consistently at its forefront;
- develop new tools and methods to support creative experimental approaches to questions; encompassing concepts or techniques from other disciplines;
- forge links between disparate disciplines;
- allow for collaboration with other distinguished scientists across disciplines;
- generate original and innovative contributions;
- assist the AHA in becoming a catalyst to achieving maximum impact in equitable health and wellbeing.

3. Summary of past efforts in support of AHA programs and initiatives and plan for future service as an ambassador in support of the AHA mission (1 pg. limit)

4. 15 Most Impactful Publications (optional replacement)

You may leave the list of your 15 most impactful publications that you submitted for your Letter of Intent. If you wish to replace this document, please email a pdf of your revised list with your application ID number to apply@heart.org.

5. Two referees will be asked to submit letters to support the applicant. Each letter has a 4-page limit.

Transformational Project Award

Proposed Research Plan, 8-page limit

1. Specific Aims

Provide a clear, concise summary of the aims of the work proposed and its relationship to your long-term goals. State the hypothesis to be tested.

2. Background and Significance

Sketch the background leading to this application. Summarize important results outlined by others in the same field, critically evaluating existing knowledge. Identify gaps that this project is intended to fill.

State concisely the importance and relevance of the research to cardiovascular and/or cerebrovascular function or disease, or to related fundamental problems. Also, it is incumbent upon the applicant to make a clear link between the project and the mission of the AHA. The significance section will be assessed in terms of potential impact on the AHA mission; this will be factored into the overall priority score as noted in the peer review criteria.

3. Preliminary Studies

Describe concisely previous work related to the proposed research by the applicant that will help to establish the experience and competence of the investigator to pursue the proposed project. Include pilot studies showing the work is feasible. (If none, so state.)

4. Research Design and Methods

Description of proposed tests, methods or procedures should be explicit, sufficiently detailed, and well defined to allow adequate evaluation of the approach to the problem. Describe any new methodology and its advantage over existing methodologies.

Clearly describe overall design of the study, with careful consideration to statistical aspects of the approach, the adequacy of controls, and number of observations, as well as how results will be analyzed. Include details of any collaborative arrangements that have been made.

Discuss the potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the aims.

Ethical aspects of the proposed research are to be addressed in the subject use approval documents. Describe any special ethical circumstance or issue of note in the proposed research plan.

- Animal subject use documents are to be uploaded into the Research Assurances section of the application.
- Human subject approval and consent forms are just-in-time documents that are submitted for funded projects prior to award activation.

If the proposed research project involves human subjects, the population sampled shall be inclusive of the general population, of relevance to the scientific question posed, without restriction regarding gender, race, age, and socioeconomic status. Proposals that intentionally restrict the population sampled must include a compelling scientific rationale for such research design as part of the proposed research plan. There is not a separate upload for this explanation; it must be included within the allowable page limit for your proposal.

D. Literature Cited

4-page limit

List all literature citations for your Research Plan. Citation references should be limited to relevant and current literature; be concise and select only those references cited in the Research Plan. This section is intended ONLY for your citations, and no other materials.

MLA (Modern Language Association) or APA (American Psychological Association) style is acceptable. Standard abbreviations are acceptable with two exceptions: full titles and full paging must be provided.

Each reference must list:

- Authors in the same order as they appear on the paper (list all or up to 15)
- Title
- Name of the book or journal
- Volume number
- Page numbers
- Year of publication

Upload your completed document to the electronic system.

Note: In the Personal Statement section of your Biosketch, you may cite up to four publications or research products that highlight your experience and qualifications for this project.

E. Research Project Environment

4-page limit, unless noted below

Use the AHA template on the next page. Address each topic listed. The form is like the NIH SF424 (R&R) Facilities & Other Resources. You may copy and paste information from a current Facilities & Other Resources document onto this form. Upon completion, convert the form to Portable Document Format (pdf).

Collaborative Sciences Award – All co-PIs are to upload a Research Project Environment to the application (2-page limit each).

Merit Award – One additional page may be used if a more extensive description is required, for a maximum of 3 pages.

All Fellowship Programs – Sponsor’s Research Environment has no page limit.

AHA RESEARCH PROJECT ENVIRONMENT

Applicant's Name _____

FACILITIES:

(Specify the facilities to be used for the conduct of the proposed research. Indicate the performance sites and describe capacities, pertinent capabilities, relative proximity, and extent of availability to the project.)

LABORATORY:

CLINICAL:

ANIMAL:

COMPUTER:

OFFICE:

OTHER:

(Identify support services and specify the extent to which they will be available to the project.)

MAJOR EQUIPMENT:

(List the most important items already available to this project, noting the location and pertinent capabilities of each.)

F. Budget Justification Form

2-page limit

The Budget Justification form requires minimal narrative explanation of expenses proposed for the project. Follow the AHA template form, which outlines the information to include in this document. Access the template: [Budget Justification Template \(DOCX\)](#)

If the application is funded, the Budget Justification will be reviewed prior to award activation to confirm that budget items comply with AHA Guidelines and allowable expenditures.

Below is a list of Allowable and Non-allowable budget items. These are defined in the [AHA Award Guide \(PDF\)](#).

Expense Types	Allowed
Alterations and Renovations	No
Books, Subscriptions	No
Collaborating Investigator Salary/Fringes	Yes
Computers	Yes
Consultative Services	May be requested, AHA approval required
Data Network chargebacks	No
Equipment	Yes
Expenses in Obtaining a Visa	No
Indirect Costs	Yes, up to 10% of total annual expenses reported
Malpractice Insurance	No
Other Personnel Salary/Fringes	Yes
Overhead	Grant Program: Yes, up to 10% of total annual expenses, unless otherwise specified. Fellowships: No, AHA does not pay overhead on awards that are mostly salary support.
Parking Fees	No
Patient Care, Hospitalization, Diagnostic Laboratory	No
Patient Transportation	Yes
Payment of Human Subjects	Yes
Personnel Recruitment	No
PI Salary/Fringes	Yes
Postage—Overnight Mail related to Project	Yes
Publication Costs and Reprints	Yes
Receptions and Meals	No
Service Contracts	Yes
Subcontracts	Yes, with prior AHA approval
Supplies	Yes
Telephone—Long Distance related to Project	Yes
Travel—Domestic or Foreign	Yes
Tuition Costs	No
Uniforms, Wearing Apparel	No

If the applicant's institution requires detailed budget information, the applicant should submit details to his/her institutional Grants Office at application submission.

G. Resubmission Modifications

2-page limit

Some AHA programs permit resubmission of the same or similar application (similar aims) as one submitted in a previous cycle, up to three times (the original plus two resubmissions). In 2020-21, the resubmission option is available for the Institutional Award for Undergraduate Training, AHA Predoctoral Fellowship, AHA Postdoctoral Fellowship, Career Development Award, Collaborative Sciences Award, and AHA Institutional Research Enhancement Award (AIREA).

If your application is a resubmission of an application unfunded in a previous AHA review, you must create a document to explain the changes. In this document, specify significant changes made in response to major comments/criticisms from the scientific critiques, and explain how the application has been strengthened or modified (additions, deletions, revisions).

It is essential that this document complies exactly with the association's Formatting and Page Requirements. See section above.

Definition of a Resubmission

A resubmission is the same or similar application (similar aims) as one submitted previously. The project aims should be the same, unless they have been modified in response to critiques or because of changes in approach that the investigator has decided to make since the original submission. If major changes are made to the application or if this is a different/new project, it is not considered a resubmission.

An applicant who is unsuccessful in competition may submit the same or similar application three times (the original plus two resubmissions). *The same or similar application submitted for the fourth time will be withdrawn.*

It is not acceptable to resubmit a proposal previously submitted by another investigator.

To have the benefit of critiques from a previous review, when possible a resubmitted application will be assigned to at least one of the previous primary reviewers. Reviewers of resubmitted applications will be provided with the critiques and scores from the previous round for reference.

Withdrawing an Application

Applications may be withdrawn at the request of the applicant. The request must be submitted to the AHA in writing. You may send your request to apply@heart.org. You will receive an email confirmation when your application is withdrawn.

Applications may also be administratively withdrawn by AHA if the applicant:

- is determined to be ineligible for the program to which they have applied;
- submits the same or similar application for the fourth time;
- does not comply with format requirements (type size/characters per inch, lines per page, and page limitations);
- is determined to have submitted an application that is duplicated by another applicant.

Peer Review

Assignment: When an application is submitted to the American Heart Association, it is assigned to a peer review committee based on the award type and the first major science classification choice of

the proposal. Two scientists from the peer review committee provide an independent, in-depth review. A third reviewer is also assigned as a reader of the proposal, to assist with differences of opinions and to balance the discussion. Readers are not required to post critiques, but sometimes comment on the overall impression of the proposal. These scientists are assigned an application based upon their broad knowledge of the science and methods contained in the application. Each peer reviewer is assigned a limited number of applications to review in detail. All peer reviewers may access all applications in their committee, if not in conflict, and may review on their own initiative applications not specifically assigned to them.

Summary for Non-scientists (lay summary): Applications for research funding will be assessed for their potential impact on the AHA Mission, and on the applicant's ability to effectively describe the proposal and its potential outcomes to non-scientists. This potential impact assessment will be based primarily on the Summary for Non-scientists (lay summary) and any lay reviewers' impressions. This assessment will be factored into the Impact peer review criterion, which will account for 5-10% of the overall priority score.

A lay reviewer is an individual who does not have formal training as a scientist, and who has strong interest in advancing the prevention and/or management of cardiovascular and/or cerebrovascular disease and/or brain health. Lay reviewers specifically help evaluate how well the applicant explains the potential impact of the proposal. This assessment will be factored into the overall priority score, as noted in the peer review criteria.

Scoring: The committee meets and discusses the scientific merit of each proposal and then each committee member privately assigns a score. After an application is scored, the reviewer's individual scores are averaged to give the application an overall priority score. When all applications in a program have been scored, they are percentile ranked. The calculations are done across all applications received for a specific program.

Streamlining: AHA reserves the right to an initial streamlining, whereby up to half of the submissions may be streamlined with no reviewer comments and no peer review score. Of the remaining applications that will be peer reviewed, up to half will be streamlined and will receive reviewer comments.

Applicants should never contact reviewers regarding their applications. Discussing scientific content of an application or attempting to influence review outcome will constitute a conflict of interest in the review and will result in the removal of your application from funding consideration and institutional notification of ethical concerns. Reviewers are directed to notify the AHA if an applicant contacts them.

Funding Notification

When peer review is complete, the AHA Research Committee will meet to make funding decisions. An email notice will be sent to applicants, sponsors (where applicable) and grants officers advising them to log in to view the application's funding status. Check your email address in your ProposalCentral profile to confirm it is correct. Even if you do not receive an email from the system, you can log in and check the status of your application.

Next Deadlines

The American Heart Association has rolling deadlines throughout the year. If your application is unsuccessful, you are encouraged to reapply the next time the program is offered and if you continue to meet the application requirements. New deadline dates are generally posted with

several months' notice. Current information will be posted to the [AHA Application Information page](#).