

AF STFP & NRC RAP: Preparing a Competitive Fellowship Application Webinar

December 9, 2025

Host: Sierra Jackson, PhD Moderator: Jennifer Griffiths, PhD

Please note that this session is being recorded



Fellowship & Application Process Webinar Sessions

- Intro to the Fellowship and Application Process September 30th (recording available)
- Eligibility & Benefits Deep Dive November 18th (recording available)
- AF STFP & NRC RAP: Preparing a Competitive Fellowship Application December 9th

FELLOWSHIP & APPLICATION PROCESS WEBINAR SERIES

AF STFP & NRC RAP: Preparing a Competitive Fellowship Application



December 9th 2025 2:00 PM ET

The National Academy of Sciences Office of Fellowships

- The National Academy of Sciences (NAS) was created by an Act of Incorporation by Congress in 1863 with the stated goal:
 - "...the Academy shall, whenever called upon by any department of the Government, investigate, examine, experiment, and report upon any subject of science or art..."
- The National Research Council (NRC) was created within NAS in 1916 to address the scientific needs of the nation during World War I
- The NRC first began administering fellowships in 1919, starting with The National Research Fellowships, which were postdoctoral fellowships funded by the Rockefeller Foundation
- The Office of Fellowships administers postdoctoral and senior fellowship awards on behalf of government agencies, supporting researchers throughout the application and award process.



The original headquarters of the National Academy of Sciences located along the National Mall with the Lincoln Memorial in the background. Photograph from the 1923-1924 NAS Annual Report.



The Keck Center is located in downtown Washington DC and serves as the current headquarters of the National Academies of Sciences, Engineering, and Medicine

NRC Research Associateship Program/Air Force Science & Technology Fellowship Program

The NRC Research Associateship Programs (RAP) were established in 1954, modeled after the National Research Fellowship

The National Bureau of Standards (now NIST) was the first sponsor, followed by the Naval Research Laboratory in 1955.

AF STFP applications and awards are managed and administered in line with the NRC RAP awards.

The objectives of the programs are:

- To provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems largely of their own choice that are compatible with the interests of the sponsoring laboratories.
- To contribute to the overall efforts of the federal laboratories



Speakers



Jennifer Griffiths, PhD, Senior Program Officer, Office of Fellowships, National Academies of Sciences, Engineering & Medicine



Marisa McDonald, PhD, Associate Program Officer, Air Force Studies Board, National Academies of Sciences, Engineering & Medicine



Albert Epshteyn, PhD, Head of the Materials Synthesis and Processing Section, US Naval Research Laboratory



Stephen M. Holmes, PhD, Professor of Chemistry & Director of Graduate Admissions, University of Missouri-St. Louis

Agenda

1

Application

2

Review

3

Decision

4

Q&A



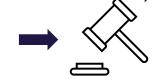
Application

Review

Decision





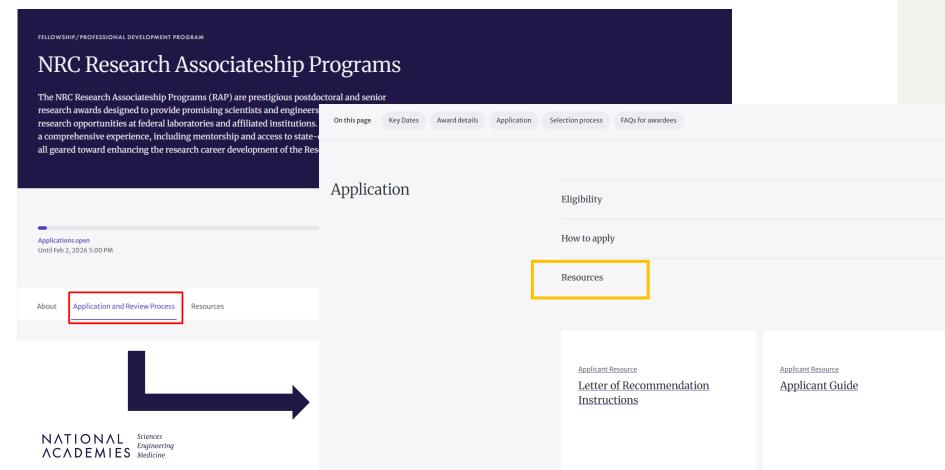


Review process

Award decision

opportunities

Key Resources for Applicants



Application Components

Guide has instructions for:

- Creating your account and profile
- Choosing a Research Opportunity
- Required uploads:
 - Research proposal
 - Dissertation abstract
 - Previous and current research description
 - Publications and presentations list
 - Transcripts and supporting documents
 - Reference letters



NRC Research and Fellowship Programs

Applicant Guide

This guide provides step-by-step instructions for applicants to the NRC Research Associateship Programs (NRC RAP) and the Air Force Science and Technology Fellowship (AF STFP). Applications must be complete and submitted by the designated deadline in order to be considered for review.

Please note that all application materials become the property of the National Academies of Sciences, Engineering, and Medicine and will not be returned. Applicants should retain copies of all submitted application materials for their personal records.

Register an Account (New Users)

- 1. Visit https://nrc58.nas.edu/InfoRAP20/Home/SignIn.aspx?c=RAPApplicants.
- 2. Select Registration and create log in credentials. Returning users should select sign in.
- 3. Sign in and select Apply for the review you wish to apply to.

Complete Profile Information Section Pages

- Select Profile Information in the left navigation menu and enter information for the Email, Phone, Address, Demographics, and Confidential tabs. This information will not be shared with reviewers.
- Select Education History and enter the required information: institution, enrollment dates, degree type, degree date awarded/expected, and research field for all undergraduate and graduate institutions attended or currently attending as of the current review cycle. See <u>Prepare and Upload Required</u> <u>Documents/Transcripts</u> at the end of this document for detailed information on required transcripts.
- Select Employment History and Honors & Awards in the left navigation menu and enter information (optional).
- See <u>Prepare and Upload Required Documents/Profile Uploads</u> at the end of this document for detailed information on the formatting and content of the Dissertation Abstract (Postdoctoral applicants only), Previous and Current Research, and Publications and Presentations.

PLEASE NOTE:

Applicants must first complete the Confidential tab on the Profile Information page and the Education History page in order to determine eligibility and to select a Research Opportunity in the Applications Section of the online application.

All materials should present a clear and consistent narrative!

Everything starts with the Research Opportunity!

RAP opportunity at Naval R	esearch Laboratory NRL	
Solid Electrolyte Fuel Cell Tec	hnologies	
Location		
Naval Research Laboratory, DC,	Chemistry	
opportunity	location	
64.15.15.C0571	Washington, DC 203755321	
Advisers		
name	email	phone
Albert Epshteyn	@us.navy.mil	202.
Description		
in developing new energy conver storage mediums such as hydrog materials for the development of Navy energy needs. Candidates	t and high-power energy sources for mobile p rsion technologies enabling rapid production o gen or hydrocarbons. Ongoing projects focus o f new fuel cell technologies providing robust a with a background in chemistry, materials che catalysis, fuel cell technology, and related disc	of electricity from chemical energy on novel electrolyte and catalyst and inexpensive alternative solutions to emistry, materials engineering,
key words		
fuel cell; proton conductor; elect	rocatalysis; oxygen reduction reaction	
Eligibility		
citizenship		
Open to U.S. citizens and perma	nent residents	



The research proposal

- ≤10 pages, including citations and figures
- Innovative, technically sound, feasible to complete in 2-3 years
- Represents the applicant's own intellectual effort
- Details any anticipated and innovative outcomes that can be published, furthering knowledge in a field of science or engineering
- Key elements:
 - > Statement of the problem
 - Background and relevance to previous work
 - General methodology
 - New or unusual methods
 - Expected results and significance
 - Literature cited

More details can be found in the <u>Applicant Guide!</u>

Application Review **Decision** Find Review Prepare Reach out Award decision research documents to advisor process opportunities

Selection Process

Selection criteria

Review Panels

Applications for awards from the NRC Research Associateship Programs (RAP) are reviewed by panels of experts in the following broad discipline areas:

- Chemistry
- Earth and Atmospheric Sciences
- Engineering, Applied Sciences, and Mathematics
- Life Sciences
- Physics

All applications are evaluated by at least three reviewers on a 100-point scale, with the final score an average of all the reviews

Application evaluation elements

1. Academic and Research Record

- Educational background
- Previous research experience
- · Publications and presentations

3. Scientific Merit of the Proposed Research

- Clarity of objectives and methodology
- Technical/innovative quality of the work plan
- Feasibility of success in the proposed timeframe
- Qualifications of the applicant relative to the proposed research

2. Letters of Recommendation

- At least three letters from individuals who have worked with the applicant and/or are acquainted with the applicant's professional background
- Postdoctoral applicants must include dissertation adviser

4. Host Laboratory/Center Review

- Comments from the prospective Adviser and the Laboratory/Center's program committee or representative
- Outlines the importance of the proposed research to the mission of the laboratory and capacity of the laboratory to support the research

Q&A

Thank you for joining!

Enter questions in the chat or use the raise hand feature to be called on

Key Dates

Application Opens	Deadline* (5 PM ET)	Review Finalized
December 1	February 1	Early March
March 1	May 1	Early June
June 1	August 1	Early September
September 1	November 1	Early December



^{*}If a deadline falls on a weekend or federal holiday, the deadline is moved to the next business day.

Information/Contact

NRC Research Associateship Programs

Website: https://www.nas.edu/rap

Email: rap@nas.edu

Air Force Science & Technology Fellowship Program

Website: https://www.nas.edu/afstfp

Email: afstfp@nas.edu

Other NASEM Opportunities

https://www.nationalacademies.org/fellowships-and-grants

