Informational Seminar

Stanford MEDICINE | Department of Pediatrics

Physician scientist
BRIDGE TO K (B2K) program

Vinita Bharat, Ph.D.
Assistant Director, Science Communication & RD Training
Office of Pediatric Research Development

Cristina Alvira, MD
Director, Physician Scientist Bridge to K Program

Allison Guerin MEd, EdD
Senior Director of Education and DEIJ

Agenda

- Overview of Physician Scientist B2K program

- Why apply for the B2k program?

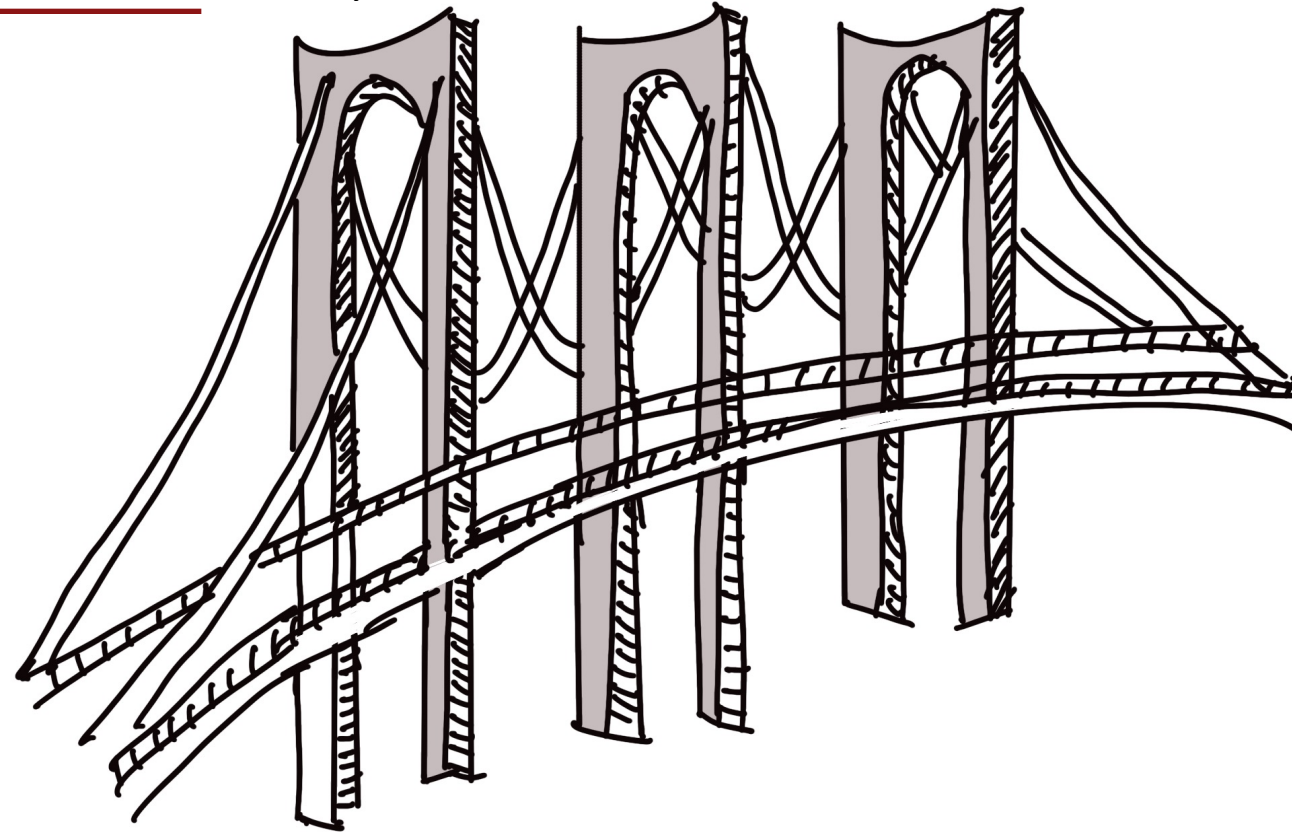- Who should apply?

- When to apply?

- How to apply?

- Q&A

BRIDGE TO K

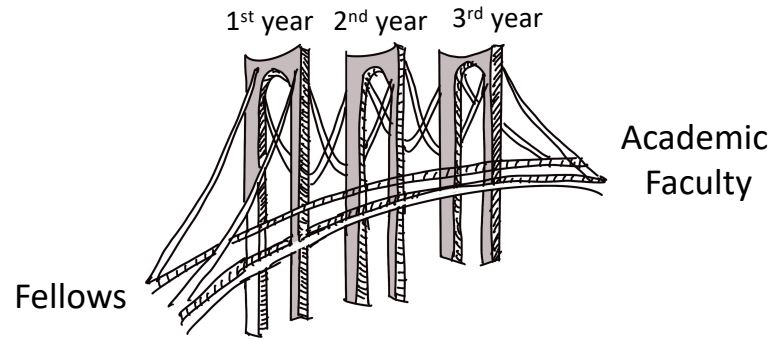NIH K or equivalent!

1st year 2nd year 3rd year

Fellows Academic Faculty

BRIDGE TO K

Provides physician scientists financial support and career development mentorship to bridge the years between fellowship training and an academic faculty position.

Funding for up to 3 years as an Instructor with 75% protected time for research.

Participants must submit an application for an NIH K Award or equivalent.

Overview B2K program

BRIDGE TO K

1st year 2nd year 3rd year

Academic Faculty

Fellows
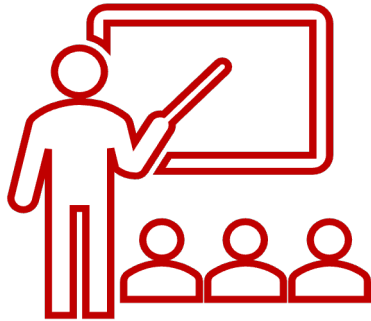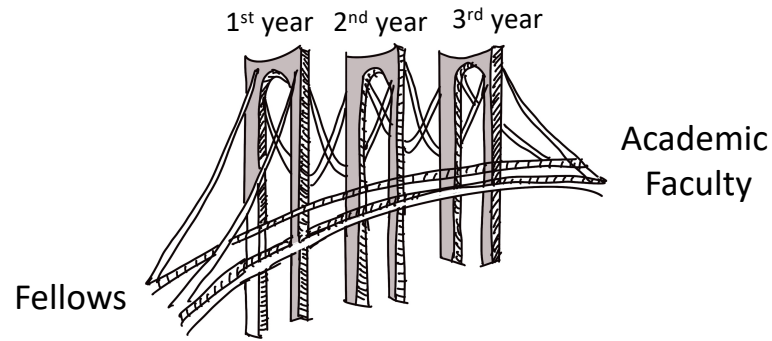
MENTORSHIP & CAREER DEVELOPMENT

- Monthly B2K meetings
- Chalk talks, job talks, research seminars
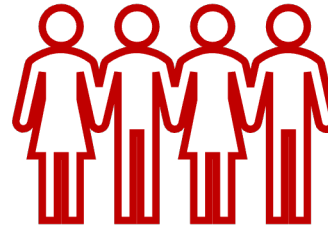
PEER SUPPORT

Community of junior physician scientists from diverse specialties and research backgrounds

FINANCIAL SUPPORT

- Department/Division funding to protect 75% of your salary for up to 3 years
- Note: if on individual/institutional K award, also able to get up to $50k from MCHRI/dept

Why apply for B2K program?

BUDGET SCENARIO 1
FELLOW RECEIVES B2K

	Appointment	Annual Salary	B2K Support (.75 FTE)	Clinical RVUs (.25 FTE)
Y1	Instructor	$146,000	$110,960	$35,040
Y2	Instructor	$146,000	$110,960	$35,040
Y3	Instructor	$146,000	$110,960	$35,040

Scholars in the B2K program spend 75% time on research and 25% time in clinical practice

Why apply for B2K program?

BUDGET SCENARIO 2

FELLOW RECEIVES F32 IN 3RD YEAR & B2K

	Appointment	Annual Salary	F32 Stipend	B2K Support (0.75 FTE)	Clinical RVUs (0.25 FTE)
Y1	75% Postdoctoral Scholar + 25% Clinical Scholar	$146,000	$63,852	$47,108	$35,040
Y2	75% Postdoctoral Scholar + 25% Clinical Scholar	$146,000	$66,228	$44,732	$35,040
Y3	75% Postdoctoral Scholar + 25% Clinical Scholar	$146,000	$68,604	$42,356	$35,040

Scholars in the B2K program spend 75% time on research and 25% time in clinical practice
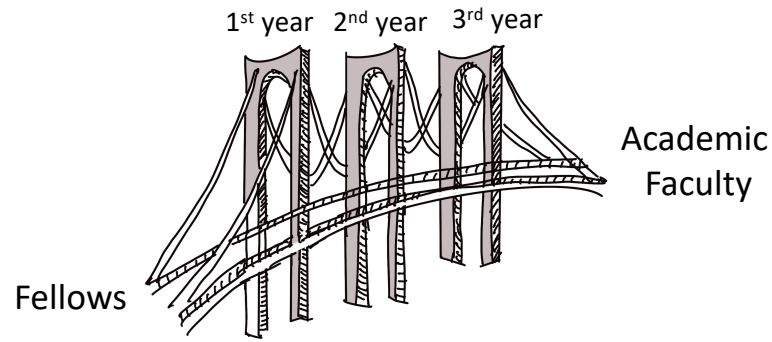
Why apply for B2K program?

BRIDGE TO K

1st year 2nd year 3rd year

Academic Faculty

Fellows

ELIGIBILITY

- Must possess an MD, DO, or MD/PhD
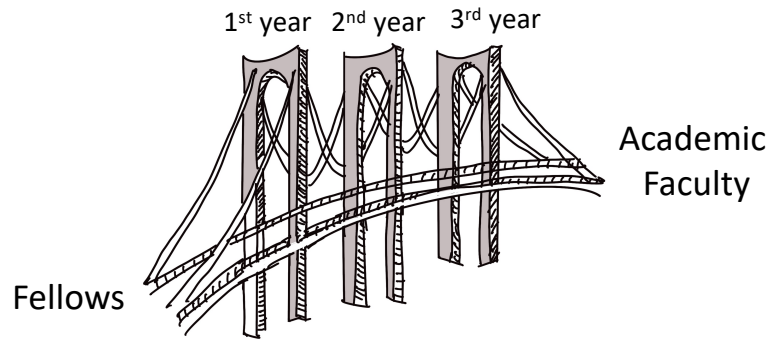
- Must be either a:

  o Fellow in their terminal year of fellowship.

  o Postdoctoral Scholar + Clinical Scholar pursuing one additional year of training after fellowship.

  o Instructor in the first year of their appointment after fellowship.

  o Fellows who receive F32 awards **can still apply** for the Bridge to K Program in their 3rd year.

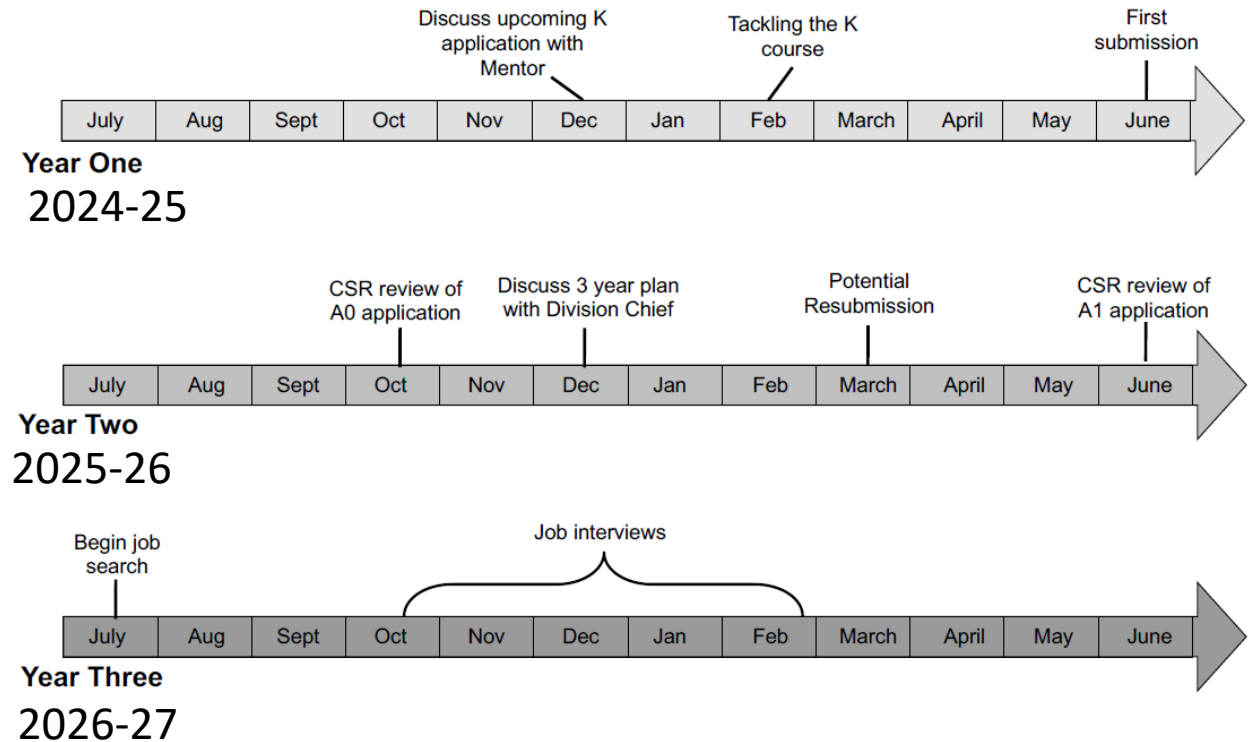Who should apply for B2K program?

BRIDGE TO K

APPLICATION DEADLINE: October 2, 2023

NOTIFICATION OF DECISION: November 2023

Award starts in July 2024

Upto 3 years (2024-27)

Year One
2024-25

Year Two
2025-26

Year Three
2026-27

BRIDGE TO K

1st year 2nd year 3rd year

Academic Faculty
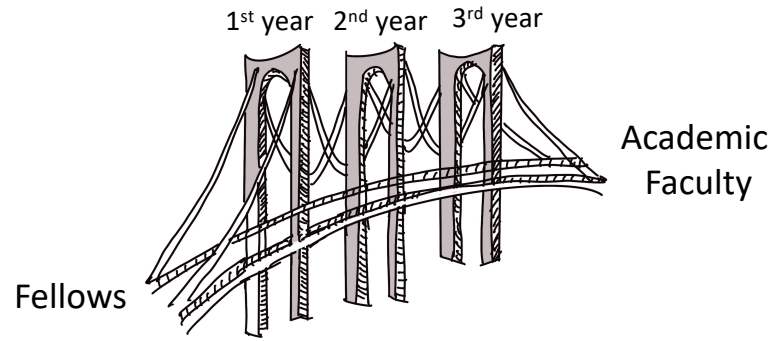
Fellows

- A single PDF containing the five (*six if needed*) components should be submitted via the Application Webform.

Documents needed
1. Research Strategy
2. Applicant's Career Development Plan
3. Applicant NIH Non-Fellowship Biosketch
4. Nomination Letter from the Division Chief
5. Mentor Information
6. Appendix : abstracts related to your proposed project or any completed manuscripts that have not yet been published

* For Pediatric Scientist Development Program (PSDP) fellows, submit your recent PSDP progress report (Fall 2023) and original PSDP application

How to apply for B2K program?

Evaluation criteria

- **Application evaluation:** Applications will be reviewed by all members of the B2K Review Committee

- **Interviews**:
    -Each applicant will be interviewed by two members of the review committee

    -The study section will meet after completion of the interviews to determine final ranking of applicants based on composite scores from the application review and interview

How to apply for B2K program?

Review Criteria (Adapted from the NIH's K Award Scored Review Criteria)

Candidate
- Does the candidate have the potential to develop as an independent and productive physician scientist?
- Are the candidate's prior training and research experience appropriate for the Bridge to K program?
- Is there evidence of the candidate's commitment to become an independent investigator in research?

Career Development Plan / Career Goals and Objectives
- What is the likelihood that the plan will contribute to the scientific development of the candidate?
- Will support from the Bridge to K program enable the candidate to obtain extramural career development grants, such as NIH K Awards or other similar foundation grants, and lead to scientific independence for the candidate?

Research Plan
- Are the proposed research questions, design, methodology of significant scientific and technical merit?
- Is the prior research that serves as the key support for the proposed project rigorous?
- Is the research plan appropriate to the candidate's stage of research development and as a vehicle for developing the research skills described in the career development plan?

Mentor(s)
- Are the qualifications of the mentor(s) in the area of the proposed research appropriate?
- Is their adequate description of the quality and extent of the mentor's proposed role in providing guidance and advice to the candidate?
- Does the mentor(s) adequately address the candidate's potential and his/her strengths and areas needing improvement?
- Is there evidence of the mentors' previous experience in fostering the development of independent investigators
- Is there evidence of the mentor's current research productivity and funding support?
- Is the environment for scientific and professional development of the candidate of high quality?

Application components

Documents needed	Page limitation
Research Strategy	**4**
Applicant's Career Development Plan	**3**
Applicant NIH Non-Fellowship Biosketch	**5**
Appendix abstracts related to your proposed project or any completed manuscripts that have not yet been published	**No page limit**
Nomination Letter from the Division Chief	No page limit
Mentor NIH Biosketch	5
Mentor Letter of Support	3

Core Document –**Needs time and several rounds of iterative feedback**

Letters or Other Supporting Documents - Information needed from mentors or Others

How to apply for B2K program?

Research Strategy

Description of a 3-year proposed scientific project that includes:

- Specific Aims (~ 0.5-1 page)
- Background (~ 1 page)
- Experimental Approach (~ 2 pages)
- Plans for developing NIH K grant or equivalent Career Development Award, including <u>planned dates of submission</u> (~0.5 page)

How to apply for B2K program?

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RESEARCH STRATEGY: SPECIFIC AIMS

Why is the question important?

What specifically will be done?

What is the overall goal?

What is the expected payoff?

SPECIFIC AIMS RESOURCES

- NIH Application Guide (SF424)

- The Grant Application Writer's Workbook – NIH (two chapters about Specific Aims)

- The Anatomy of a Specific Aims Page

- Dr. Crystal Botham's Video on Writing Specific Aims

- Drafting Specific Aims (NIAID)

- Specific Aims Tips from The Science Grant

- All About the NIH K Award Workbook (Chapter 8)

How to apply for B2K program?

RESEARCH STRATEGY: BACKGROUND

SIGNIFICANCE

> ## Why the research is important?
>
> - **Introduce the problem**
>   - Build it from the SPECIFIC AIMS section.
>   - Evaluate the rigor of prior research,
>   - Incorporate data
>
> - **State why the proposed research is significant**
>   - Use a phrase like, "*The proposed research is significant because…*"
>
> - **Define the return on investing in your proposal**
>   - Articulate broad significance
>   - Describe impact to human health

How to apply for B2K program?

RESEARCH STRATEGY: APPROACH

For each Specific aim:

Rationale		Preliminary Data		Methods		Expected Outcomes		Alternative Approaches
Introduce the aim		Yours or published to show why you are the perfect candidate to conduct the aim		How will you test your hypotheses?		What will happen once you achieve your aim		Point out any possible issues and how you would resolve them, should they occur
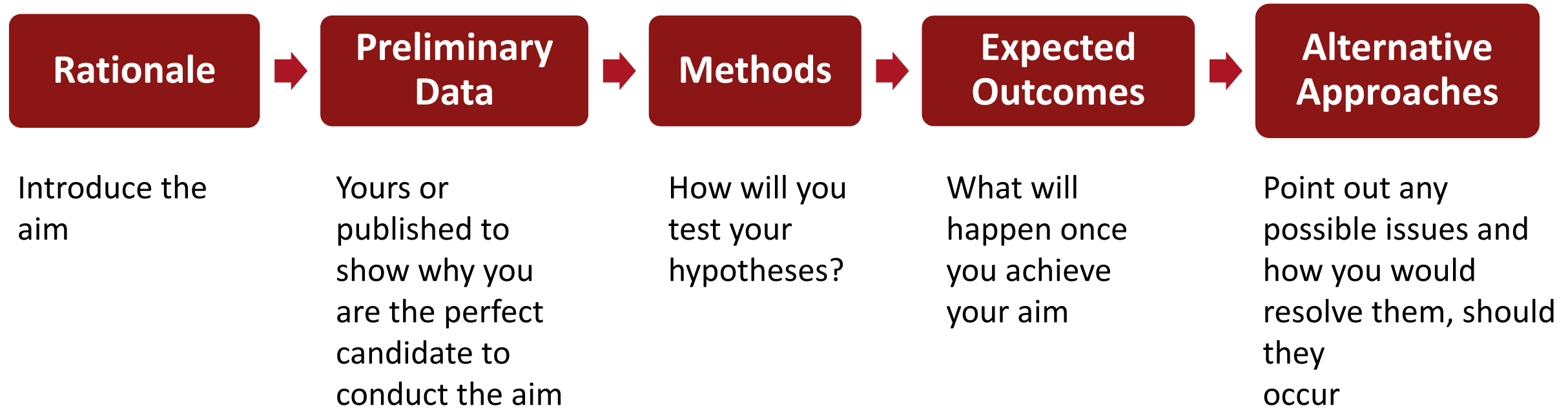
How to apply for B2K program?

Plans for developing an NIH K grant or equivalent

Includes two parts:

- A narrative summarizing how will the B2K help my K application?
- A timeline

	Year 1	Year 2	Year 3
Aim 1	X		
Aim 2	X		
Aim 3	X	X	X
Publications	Methods Paper	Manuscript 2	
NIH K08 Application	X		

How to apply for B2K program?

RESORCES

- The Grant Application Writer's Workbook – NIH

- National Institute of Allergy and Infectious Diseases (NIAID) - Write Your Research Plan

- Dr. Sky Brubaker's Video on Communicating your Research Strategy

- NIH Application Guide (SF424)

- All About the NIH K Award Workbook (Chapter 12)

How to apply for B2K program?

Applicant's Career development plan

Current You **+** Training **=** Future You

Independent investigator

A personal statement developed with the Mentor and Division Chief describing:

- Candidate's background ~1 page

- Career goals and objectives ~0.5 page

- Career development plan ~1.5 pages

How to apply for B2K program?

Candidate's background

A memorable narrative

- Chronological

- A unique personal connection to your specific area of research

- Highlights

- End this section with a short statement about your needs

How to apply for B2K program?

RESORCES

- NIH Application Guide (SF424)

- Criteria and Considerations for K Critiques

- How to Design a Winning Fellowship Proposal

- How to get a K award: It's not just about the science

- K Award Kiosk

- All About Grants Podcasts - Using Career Development Awards to Achieve Independence (June 21, 2010)

- All About the NIH K Award Workbook (Chapter 10)

How to apply for B2K program?

Applicant's biosketch (non-fellowship)

OMB No. 0925-0001 and 0925-0002 (Rev. 10/2021 Approved Through 01/31/2026)

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 USER NAME (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, Scientific Appointments, and Honors**

C. **Contributions to Science**

Building Blocks for the Personal Statement	Review Criteria Addressed
Describe your goals and motivation	Candidate, Career development plan, Research Plan
Highlight your academic history	Candidate, Mentors
Elaborate how will the B2K help your K application	Candidate, Mentors

Contributions to Science Section

A description of up to five of your most significant contributions to science → Each contribution should be no longer than one half page, including citations → 2-3 contributions are common for postdocs / clinical fellows → Categories of contribution can be *career phases*, *scientific impact* and *clinical orientation*

How to apply for B2K program?

RESOURCES

- NIH Biosketch Information and Forms
- Interim Research Products
- PMCID Citations
- MyBibliography
- All About the NIH K Award Workbook (Chapter 9)
- Writing the NIH Biosketch - Recording & Slides

How to apply for B2K program?

Application components

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How to apply for B2K program?

Nomination letter from Division Chief

- Provide their assessment of the candidate's research accomplishments to date, strength and impact of the proposed study, and potential for developing a career as an independent investigator.

- Agree to ensure that the candidate will receive 75% protected time from clinical duties to devote to research or research career development.

- Describe what role the division will play in providing the candidate with appropriate mentorship, training opportunities, research facilities, and resources to carry out the proposed career development and research plans.

- Confirm their commitment to meet with the candidate at least twice per year, including one joint meeting with Dr. Leonard and the candidate's primary research mentor.

- For divisions where the salary support for the candidate will be either provided by the division or shared with the Department of Pediatrics (e.g. Cardiology, Neonatology, Critical Care Medicine, and Hematology, Oncology, Stem Cell, Transplantation and Regenerative Medicine). Please confirm a commitment to provide the candidate with this financial support for up to 3 years, provided that the candidate continues to demonstrate sufficient research progress and achieve the benchmarks established during the bi-annual meetings.

How to apply for B2K program?

Mentor Letter of support

- Start with giving their strongest possible support.

- Mentor's research qualifications and previous experience as a research supervisor

- Provide evidence of candidate's potential as an independent and productive researcher.

- Describe the research plan as enabling future independence.

- Career development and training plan

- Conclude with the commitment to the candidate

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1st year 2nd year 3rd year

Academic Faculty

Fellows
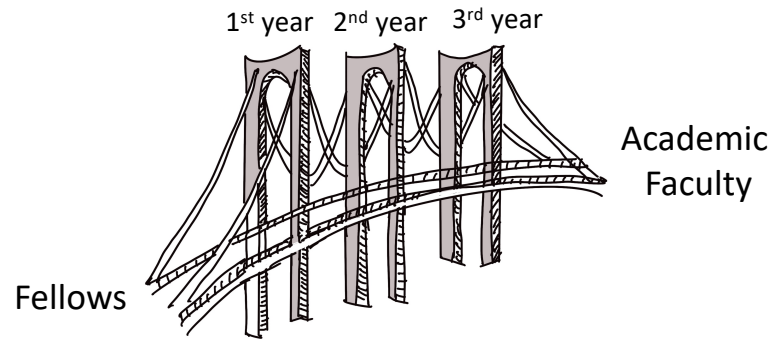
- Discuss the B2K application and potential training with your division chief and mentors.

- Understand the review criteria of the application and craft your application accordingly.

- Learn about B2K milestones-

  1 year apply NIH K or equivalent

  Attend and participate in B2K meetings

  Applying for faculty appointment by year 3!

Tips for success: B2K application