

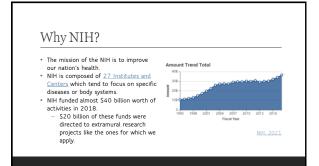
Our Guide for Today:

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Writing the NIH Proposal

Assemble Research Nam

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What advice would you give to a mid-level Associate Professor who has never applied for NIH funding before?

• Find which of the NIH centers might fit your idea (there could be several overlapping options).

• Look at these centers' strategic plans.

• Set up an appointment with a Program Officer.

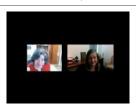
- Send specific aims or paragraph and full CV.

- Provide your availability in EST over the next few weeks.

- If they don't respond within 10 calendar days, send a gentle nudge. If they don't respond after that, then find someone else.

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Sometimes, researchers are hesitant to talk to their Program Officers. What do you think about that?



Sometimes, researchers are hesitant to talk to their Program Officers. What do you think about that?

- Program Officials are public servants. We pay their salaries. Talk to them.
- It pays to shop around. If one PO doesn't like your idea, another might.

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It seems like the R1 Universities get all the research funding. What about me?

- NIH realizes that they need to start spreading the wealth around.
- Check out specific grant mechanisms that might target your type of institution (examples: AREA R15).

Review Grant Requirements

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Let TXST OSP know what your plans are. They can help at each step of the process.

- Which NIH mechanism is right for you and your idea?

 Mentored awards (K08, 3-5yrs, S varies; K23, 3-5yrs, S varies)

 Small Grants for Pilots and Secondary Data (R03, 2yrs, 550K / yr)

 Exploratory / Developmental Research (R21, 2yrs, 5275K total)

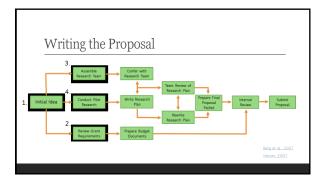
 Traditional Research Project (R01, <5yrs, 5500K / yr)

 - Clinical Trial Planning (R34, 1yr, \$100K) Research Enhancement Award (R15, 3yrs, \$300,000 total)
- Read the <u>NIH instructions</u> for assembling the grant application.
- · Pay attention to any special considerations that might apply to your

Writing the NIH Proposal

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Pilot Research

- Leverage your existing publications; use these to tell a story.
- Show that your idea is feasible.
- Demonstrate that you have already mastered the techniques for the project that you hope to get funded.
- Provide evidence that your team can work together efficiently and produce meaningful results.

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How much time should a researcher budget for writing (and resubmitting) a grant?

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 $\bullet\,\,$ Spend at least 6 months writing the first submission.

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 Plan for at least 18 months to cover first submission, review, sitting out a round, then resubmission.

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Research Strategy

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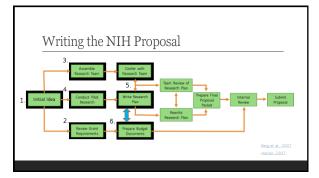
- Obtain a copy of someone's previously funded proposal for your mechanism.
- · Assume the reviewer will not read your proposal from start to finish.
- Address Significance, Innovation, and Approach for your specific aims.
 - Significance: begin section with an overview paragraph identifying gaps in the literature and how your proposal will fill them.
 - Innovation: begin section with a heading literally asking, "How is this proposal innovative?" and then answer this question.
 - Approach: include introduction paragraph, then headings of justification & feasibility (the pilot data), research design & methods (with power analysis), data analysis plan (organized by hypothesis), expected outcomes, potential problems & alternative approaches, and rigor & transparency, and how variables like sex and age will be addressed (if applicable).



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Where can I get an example of a successfully funded proposal?

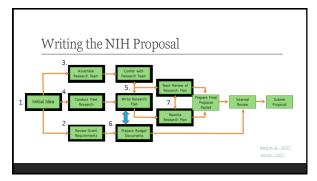
- The best place to get these is from your university's Office of Sponsored Programs.
- You must have the researchers' approval to view the document and it must remain confidential.

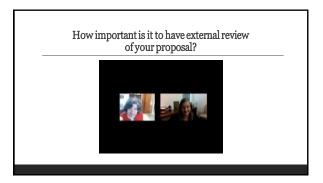


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Budget Documents

- Obtain budget spreadsheet draft from TXST grants specialist.
- Prepare budget draft in parallel with the research plan.
- Seek external quotes early to allow time for processing, especially in our new COVID reality.
- Budget an adequate number of course buy-outs to complete the project. (Make sure your Department Chair is aware of your plans early on!)
- Revisit agreements with team members and decide on the distribution of indirect funds.

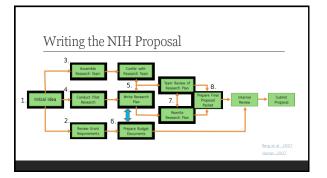




 $How \, important \, is \, it \, to \, have \, external \, review \\ of \, your \, proposal?$

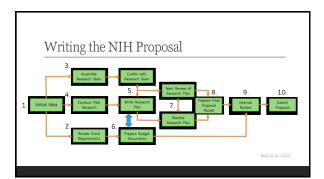
- It's ESSENTIAL!!
- Give them at least 3 weeks to give you feedback.
- Have at least two people read it:
 An "informed bystander"
 Someone from your field.

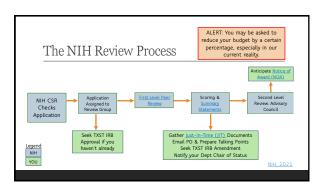
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Prepare the Proposal Packet Review the NIH Guidance again and make sure you have all required components of the proposal. - Biosketches in <u>latest format</u>. - Support letters from everyone involved with the project. Support letter from your Department Chair and anything else that would demonstrate "institutional support." Cover letter indicating which NIH institute(s) and $\underline{study\ section}(s)$ would be appropriate for the application. Don't forget to address any extra components that might be unique to your specific target mechanism (example: student mentoring plan for an R15).

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What are the top mistakes that you see people making in the grant-writing process?



What are the top mistakes that you see people making in the grant-writing process?

- The top mistake is failing to resubmit!
 Don't give up; you might be on the brink of success and not even know it.
- Tips for responding to the review:
 Pay attention to what they didn't like but keep the parts that they did.
 Prepare a one-pager and reach out to your Program Officer.
- Another frequent problem is researchers' failure to understand "Federalese"

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Promote your Research Agenda

- Network. Get out there and meet some people! - We are scientists. Some of us are introverts by nature.
- Attend your national organization's conference.
 - Find a PO at the meeting. Talk to them. Be ready to answer the direct question, "why should we fund this work?"
 - Use professional and scholarly social media platforms to make new contacts.

How important is it to attend scientific conferences in my field?

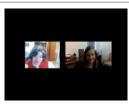


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$How \, important \, is \, it \, to \, attend \, scientific \\ conferences \, in \, my \, field?$

- \bullet Especially for early-career researchers, it is very important to network at conferences. It makes a big difference.
- Bring actual paper business cards and hand them out!
- Be prepared for Program Officers to walk up to your presentation and ask, "why should we fund this work?"

Grant writing is time consuming. How can I keep this from slowing down my publication rate?



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Grant writing is time consuming. How can I keep this from slowing down my publication rate?

- Every grant application should yield at least four papers, spaced out over time.
 The review article (from your grant introduction; write this one even if you don't get funded!)
 The outreach article (here's the how! worked with the community to start the project)
 Vour baseline data (here are some of our preliminary results on this project)
 The final article (here's the full picture, the one you would normally submit at the end)



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$\begin{array}{c} \hbox{COVID has delayed activity on our funded grants.} \\ \hbox{What should we do?!} \end{array}$

- Talk to your Program Official and keep them updated!
- Explain how COVID has affected your research.
- - Be specific

 Make sure you communicate your issues BEFORE you near the end of your funding period.



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