Training Funding

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Outline

• My own background/experience
  • Mostly NIH

• Training grants (funding programs)
  • Questions

• Training individuals (funding individual trainees)
  • Questions

• Summer training programs (funding undergraduate trainees)
  • Questions
My own background/experience

• As graduate student:
  • Trainee on NIEHS T32 program on Environmental Statistics
  • Interdisciplinary Training
  • Responsible Conduct of Research (“Miss Evers’ Boys”, Cantor’s Dilemma)

• As faculty member:
  • PI of two different NIH T32s (Biostatistics, Genetics, Immunology and Neuroimaging (NIGMS), Environmental Biostatistics (NIEHS))
  • Mentor on NIH Diversity Supplement post-doctoral trainee
  • PI of SIBS (T15, R25) summer program
  • PI of ASA-NSF REU
  • T32 reviewer
  • “Aspirational applicant” on multiple T32s since…
NIH General Information

- NIH Institutional Training Grants
  - [https://researchtraining.nih.gov/programs/training-grants](https://researchtraining.nih.gov/programs/training-grants)
- NIH Individual Fellowships
  - [https://researchtraining.nih.gov/programs/fellowships](https://researchtraining.nih.gov/programs/fellowships)
- NIH Career Development
  - [https://researchtraining.nih.gov/programs/career-development](https://researchtraining.nih.gov/programs/career-development)
- NIH Other training-related (including dissertation fellowships)
  - [https://researchtraining.nih.gov/programs/other-training-related](https://researchtraining.nih.gov/programs/other-training-related)
NIH Training Grants (T32)

• Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grant (T32)


• Specialty T32 RFAs

• Institute-specific due dates!
Institute-specific Due Dates:

- NIGMS, NCCIH: January 25
- NCI: January 25; May 25; September 25
- NIAMS, NIBIB, NICHD, NIDCD, NIDDK, NIEHS, NINDS, NINR: May 25
- NEI, NIA, NIAAA, NIDA, NIMH: May 25 (AIDS date September 7)
- NHGRI: May 25 only (new applications); January 25, May 25, or Sept 25 (renewal and resubmission applications).
- NHLBI: January 25 (AIDS date May 7) (new, renewal, resubmission, revision); September 25 (resubmission applications only).
- NIAID: January 25 and Sept 25 for non-AIDS applications; May 7 and Jan 7 for AIDS applications

Key information

- Training *grant* versus training *program*
- Grant funds trainees
  - Limited to US Citizens/Permanent residents
- Program can involve all interested trainees
- Sustainability of *program* is a key criterion (but sometimes implicit)
- What does grant fund?
  - Other training expenses (amount, timing, restrictions?)
  - PI time (but not much)
Training grant: Application considerations

• Contact program officer early and often
• Contact other training grant PIs (at your institution, at other institutions)
• Budget is straightforward (but clearly justify)
• Tables are detailed and labor-intensive
• Institutional support on tables
  • Use if it exists
  • Start it if it does not exist
• When to support trainees (pre/post qualifying exam?)
Training grant documentation

• Tables
  • Do you have a stable pool of “training grant eligible” trainees?
    • Applicants to degree program(s) and current trainees.
  • Do you have an engaged set of trainers with experience
    • As researcher?
    • As trainer?
  • Do you have an evaluation plan and system?
  • Can you track past trainees?
  • Do your current trainees go into research careers?
  • Make sure the tables match their descriptions and are internally consistent!!!

• Individual development plans (IDPs)
  • MyIDP and other resources
Training grant: Tables

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Training grant: Tables

• Complete list: https://grants.nih.gov/grants/forms/data-tables.htm

• Some only for renewals, some only for new proposals.
  • https://grants.nih.gov/grants/funding/datatables/datatables_intro.pdf

• All have detailed instructions.
  • https://grants.nih.gov/grants/funding/datatables/Consolidated_Training_Tables.pdf
Training grant: IDP

- **Individual development plan** (from NIAAA T32 information)
  - “An IDP is a *dynamic document* that identifies career goals, sets a path and helps trainees manage their career development plans.”
  - “The IDP should be *drafted by the trainee and discussed and reviewed with their mentor(s)*, at minimum, every 6 months.”
  - “Input from secondary mentors and beyond is encouraged.”
- Two recommended resources:
  - Science Centers myIDP resource ([http://myidp.sciencecareers.org/](http://myidp.sciencecareers.org/))
  - A [IDP form](https://drive.google.com/file/d/0B-MvY34TBxOWWkNHQWFyd2tQcTA/view) and a helpful [Comprehensive Skills Analysis Worksheet](https://drive.google.com/file/d/0B-MvY34TBxOWZGVtVksyVWVQN3c/view) from UCSD
Questions
Training individuals: Trainee as PI

• NSF: Graduate Research Fellow Program
  • [https://www.nsfgrfp.org/](https://www.nsfgrfp.org/)
  • 2 chances: Before enrolling or after 1\textsuperscript{st} year

• NIH: F31 (predoc) (URL)
  • Typically focused on dissertation research (apply after enrolled)

• NIH: F32 (postdoc)
Training individuals: Trainer as PI

• Trainee as graduate research assistant on a funded research project.
• Trainee as supplement to funded research project.
Questions
Summer training programs

- NSF Research Experience for Undergraduates (REUs)
  - Network of Mathematics REU Directors (meets at MAA meeting)
- NIH Summer Research Education Experience Program (R25)
  - Includes NHLBI’s Summer Institute for Research Training in Biostatistics (SIBS)
- 6-10 week program
  - REU: Individual research projects
  - SIBS: Group training and research projects
Summer program considerations

- Travel
- Housing and food
- Training program, faculty commitment
- Teaching assistants, teaching assistants, teaching assistants

- Measures of success:
  - Research projects
  - Future career trajectory (evaluation and follow-up critical!)
Questions?
Diversity programs

- NIH Broadening Experiences in Scientific Training (BEST)
  - http://www.nihbest.org/
- NIH Bridges to Baccalaureate
- NIH Bridges to Doctorate
  - Webinars for applicants
- Post-baccalaureate programs at NIH
  - https://www.training.nih.gov/trainees/postbacs (intramural)
- NIH Diversity supplements
- Fellowship programs (Ford Fellowships, etc.)
Questions?
Summary

• Program-level support
  • Training grant vs. training program
  • Tables
• Individual-level support
  • Trainee as PI
  • Trainer as PI
• Summer support
  • Logistics and follow up
• Diversity support
  • Many programs at individual and program level
• Each worthy of follow up webinars, director meetings, etc.!
  • Suggestions welcome!
Questions?

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