

Training Funding

Lance A. Waller, PhD

Department of Biostatistics and Bioinformatics

Rollins School of Public Health

Emory University

January 21, 2019

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>
- NIH Individual Fellowships
 - <https://researchtraining.nih.gov/programs/fellowships>
- NIH Career Development
 - <https://researchtraining.nih.gov/programs/career-development>
- NIH Other training-related (including dissertation fellowships)
 - <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)
- General Parent T32 RFA: <https://grants.nih.gov/grants/guide/pa-files/PA-18-403.html>
- Specialty T32 RFAs
- Institute-specific due dates!
 - <https://grants.nih.gov/grants/guide/contacts/parent-T32-institutional-research.html>

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)
- NHGI: 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
- Check carefully! (<https://grants.nih.gov/grants/guide/contacts/parent-T32-institutional-research.html>)

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?
 - Trainee stipends NRSA stipend levels (<https://grants.nih.gov/grants/guide/notice-files/NOT-OD-18-175.html>)
 - 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

- Complete list: <https://grants.nih.gov/grants/forms/datatables.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/>)
 - A [IDP](#) form and a helpful [Comprehensive Skills Analysis Worksheet](#) from UCSD
 - <https://drive.google.com/file/d/0B-MvY34TBxOWWkNHQWFyd2tQcTA/view>
 - <https://drive.google.com/file/d/0B-MvY34TBxOWZGVtVksyVWVQN3c/view>

Questions

Training individuals: Trainee as PI

- NSF: Graduate Research Fellow Program
 - <https://www.nsfgrfp.org/>
 - 2 chances: Before enrolling or after 1st year
- NIH: F31 (predoc) (URL)
 - Parent: <https://grants.nih.gov/grants/guide/pa-files/PA-19-195.html>
 - Diversity: <https://grants.nih.gov/grants/guide/pa-files/PA-19-196.html>
 - Typically focused on dissertation research (apply after enrolled)
- NIH: F32 (postdoc)
 - Parent: <https://grants.nih.gov/grants/guide/pa-files/PA-19-188.html>

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)
 - https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517&from=fund
 - Network of Mathematics REU Directors (meets at MAA meeting)
- NIH Summer Research Education Experience Program (R25)
 - <https://grants.nih.gov/grants/guide/pa-files/PAR-19-197.html>
 - Includes NHLBI's Summer Institute for Research Training in Biostatistics (SIBS)
 - <https://www.nhlbi.nih.gov/grants-and-training/summer-institute-biostatistics>
- 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
 - <https://www.nigms.nih.gov/research/mechanisms/pages/bridgesbaccalaureate.aspx>
- NIH Bridges to Doctorate
 - T32: <https://www.nigms.nih.gov/research/mechanisms/pages/bridgesdoctoral.aspx>
 - Webinars for applicants
- Post-baccalaureate programs at NIH
 - <https://www.training.nih.gov/trainees/postbacs> (intramural)
- NIH Diversity supplements
 - <https://grants.nih.gov/grants/guide/pa-files/pa-18-586.html>
- 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?

- lwaller@emory.edu
- holans@Missouri.edu