Graduate Research Training Initiative for Student Enhancement (G-RISE) (T32)

&

Initiative for Maximizing Student Development (IMSD) (T32):

December 3, 2021
Before We Start

• This webinar is being recorded and will be available online. The slides will also be posted online

• Type your questions in the Chat box to Everyone

• There will be a Q&A period at the end of the webinar
Webinar Outline

Program Perspective – Goals & Eligibility, Overview of Program, Application Components

- Sydella Blatch, Ph.D., G-RISE Program Officer
- Patrick H. Brown, Ph.D., IMSD Program Officer
- Shakira Nelson, Ph.D., IMSD Program Officer

Review Perspective

- Tracy Koretsky, Ph.D., Scientific Review Officer

Grants Management Perspective

- Justin Rosenzweig, Grants Management Team Leader
**Disclaimer**

This webinar and accompanying slides are for informational purposes only. They serve as an overview of the G-RISE and IMSD programs and are not meant to be comprehensive in coverage of all required components of an application.

Applicants are responsible for following the instructions detailed in the FOAs, any FOA Related Notices (included in the FOA’s Overview Information section), and the SF424 Application Guide.

Applicants can also use the Reference FAQ page on each program webpage for useful information.
G-RISE & IMSD FOAs

- New G-RISE & IMSD FOAs were issued on 11/20/20
  - G-RISE (T32): PAR-21-026
  - IMSD (T32): PAR-21-025

- The next due date for both programs is January 28, 2022
  - Future due date- January 30, 2023

- If you have a currently funded R25 RISE or IMSD program, any application to the T32 programs must be a **NEW** application

- The FOA changes align with changes to other NIGMS T32 programs
Example changes to the G-RISE & IMSD FOAs

To align with the changes recently made to other NIGMS T32s, these new FOAs:

- Encourage partnerships with, and input from, potential employers
- Encourage teaching to the highest standards of practice in biomedical research (e.g., safety, record keeping) so trainees have skills to transition to fields such as industry
- No longer require Table 6A. Key data will now be included in the text instead, in the Program Plan.

Please remember these are just **some** changes. This is not inclusive of all changes that have been made.
Critical Deadlines

• Letter of Intent Due Date(s)
  • Not Applicable

• Application Due Date(s)
  • January 28, 2022, by 5:00pm applicant’s local time
  • Submit early to allow adequate time to correct errors found during the electronic submission process

• Scientific Merit Review – June/July 2022

• Earliest Start Date - February 2023
Since the last submission deadline, some important Related Notices have been released:

- **NOT-GM-21-040** and **NOT-GM-21-047**: changes to appendix page limits
- **NOT-OD-21-169**: changes to grant application forms and application guide instructions for due dates on or after January 25, 2022
  - **NOT-OD-21-073** and **NOT-OD-21-110**: changes to biosketch format
  - **NOT-OD-21-109**: Expanding Requirement for eRA Commons IDs to All Senior/Key Personnel
  - **NOT-OD-21-170**: Change in Federal-wide Unique Entity Identifier (UEI) Requirements
Graduate Ph.D. Students
G-RISE (T32): Research Active Institutions
IMSD (T32): Research Intensive Institutions

NIGMS Training Programs
Graduate Ph.D. Students
G-RISE (T32): Research Active Institutions
IMSD (T32): Research Intensive Institutions

≥ $7.5 M RPG Research-Intensive
< $7.5 M RPG Research-Active
Goal of the Programs

...to develop a diverse pool of scientists earning a Ph.D., who have the skills to successfully transition into careers in the biomedical research workforce.

G-RISE Program Website: https://www.nigms.nih.gov/training/RISE/Pages/G-RISE-T32.aspx

IMSD Program Website: https://www.nigms.nih.gov/training/IMSD
Research Training Program Considerations

Develop and implement training and mentoring to keep pace with the rapid evolution of the biomedical research enterprise.

Leverage institutional support and resources.

Programs are expected to:
Incorporate didactic, research, mentoring, and career development elements to prepare trainees with the technical, operational, and professional skills required for careers in the biomedical research workforce.

Programs provide:
Offset for the cost of appointed trainee stipends, tuition and fees, and training related expenses, including health insurance, travel support.
Major Themes in NIGMS Training Programs

• **Trainee skills development** – use evidence-based approaches to provide technical, operational and professional skills

• **Specific Aims** - obtainable and measurable training objectives

• **Rigor & transparency, responsible & safe conduct** of research throughout the training experience

• **Commitment to diversity & inclusion**

• **Promote a culture of safety**

• **Mentor training and oversight** of trainee/mentor matches

• **Career preparedness** – provide knowledge of and skills to transition into the range of careers in the biomedical research workforce

• **Strong institutional support** for research training

• **Evaluation** - the collection and dissemination of data on the success/failure of educational aims; make career outcomes publicly available
G-RISE & IMSD Eligibility - Institutions

• Award Ph.D. degrees in biomedical sciences

• NIH Research Project Grant (RPG) Funding **average per year, over the last 3 fiscal years:**
  - Less than $7.5 million (research active) = **G-RISE**
  - Greater than or equal to $7.5 million (research intensive) = **IMSD**

• Only one G-RISE or IMSD application per institution is allowed
How to Determine Average RPG Funding

1. To determine RPG funding, visit NIH RePORTER

2. Select Awards by Location, select see report, and enter the institution name in the Organization cell. After entering the institution, click SELECT.

3. Select the institution from the sub listing provided, click Submit Query.
NIH RePORTER

4. View funding amount for “RPG- Non SBIR/STTR”.
Note: The current FY is the default, select the FY for the last 3 full fiscal years and calculate the annual average.

For example, for applications submitted in January 2022, use FY 21, 20 and 19 RPG funding.

Instructions to determine RPG Funding
Eligibility Information -
*Program Director (PD) / Program Investigator (PI)*

- The contact PD/PI is expected to have a regular full-time appointment (i.e., not adjunct, part-time, retired, or emeritus) at the applicant institution, unless extremely well-justified.
- Multiple PDs/PIs are encouraged.
- All PD(s)/PI(s) must have an eRA Commons account.
Eligibility Information - *Trainees*

- Must be a citizen, non-citizen national or permanent resident of the U.S.
  - Deferred Action for Childhood Arrivals (DACA) students are not eligible

- Matriculated as a **full-time Ph.D. student** at the applicant institution majoring in a biomedical science

- All trainees are required to pursue their research training **full time**, normally defined as 40 hours per week, or as specified by the sponsoring institution policies

- Appointments are normally made in **12-month increments**
Webinar Outline

I. Program Overview

II. Application Overview

III. Peer Review Overview

IV. Budget Overview
First Step in Preparing an Application

Read the FOA, Related Notices and SF424 (R&R) Application Guide thoroughly

FORMS-G application package must be used for applications due on or after January 25, 2022 (NOT-OD-22-018)

Appendix Changes: NOT-GM-21-040 (G-RISE) and NOT-GM-21-047 (IMSD)

Please See NIGMS Training Program FAQs and/or contact your Program Officer.
Examples of Reasons for Withdrawal

• Use of FORMS-F instead of FORMS-G application package

• **Missing** a required Data Training Table or including additional tables in the data tables attachment (e.g., 6A)

• Missing a **required Appendix** document, including an unallowed appendix document, or an appendix document that exceeds maximum page length

• Missing a required **Other Attachment**

• Missing a required **institutional support** or **institutional eligibility** letter, information lacking in a letter

• Exceeding the **page limit** for any section, attachment, etc.

Contact your Program Officer whenever you have questions.
Application Title Format

Use the format:

“[G-RISE or IMSD] at ___________________”

For example:

G-RISE at Fantastic University

IMSD at the University of Success
<table>
<thead>
<tr>
<th>Section of Application</th>
<th>Page Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Summary/Abstract</td>
<td>30 lines of text</td>
</tr>
<tr>
<td>Program Plan</td>
<td>25</td>
</tr>
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<td>Advisory Committee (optional)</td>
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<tr>
<td>Recruitment Plan to Enhance Diversity</td>
<td>3</td>
</tr>
<tr>
<td>Trainee Retention Plan</td>
<td>3</td>
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<tr>
<td>Outcomes Data Collection and Storage Plan</td>
<td>2</td>
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<tr>
<td>Dissemination Plan</td>
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<tr>
<td>Plan for Instruction in Methods for Enhancing Reproducibility</td>
<td>3</td>
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<tr>
<td>Plan for Instruction in the Responsible Conduct of Research</td>
<td>3</td>
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<tr>
<td>Each Biographical Sketch</td>
<td>5</td>
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<tr>
<td>Institutional Support Letter</td>
<td>10</td>
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<tr>
<td>Institutional Eligibility Letter</td>
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<td>Required Training Activities</td>
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<tr>
<td>Responsible Conduct of Research Syllabi</td>
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<tr>
<td>Elective Activities</td>
<td>2 per activity</td>
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<tr>
<td>Conflict Resolution Protocols (optional)</td>
<td>3</td>
</tr>
<tr>
<td>Introduction (for Resubmission or Revision ONLY)</td>
<td>3 for resubmission</td>
</tr>
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</table>
# Research Training Program Plan Form

<table>
<thead>
<tr>
<th>Introduction</th>
<th>1. Introduction to Application (for Resubmission and Revision applications)</th>
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<tbody>
<tr>
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<tr>
<td>Training Program Section</td>
<td>2. Program Plan</td>
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<td></td>
<td>3. Plan for Instruction in the Responsible Conduct of Research</td>
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<td>4. Plan for Instruction in Methods for Enhancing Reproducibility</td>
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<td></td>
<td>5. Multiple PD/PI Leadership Plan (if applicable)</td>
</tr>
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<td></td>
<td>6. Progress Report (for Renewal applications)</td>
</tr>
<tr>
<td>Faculty, Trainees and Training Record Section</td>
<td>7. Participating Faculty Biosketches</td>
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<td>8. Letters of Support</td>
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<td>9. Data Tables</td>
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<tr>
<td>Other Training Program Section</td>
<td>10. Vertebrate Animals</td>
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<td>11. Select Agent Research</td>
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<td></td>
<td>12. Consortium/Contractual Arrangements</td>
</tr>
<tr>
<td>Appendix</td>
<td>13. Appendix</td>
</tr>
</tbody>
</table>

**Multiple Sections, Each with several attachments:**

- Introduction – if a resubmission
- Training Program Section
- Faculty, Trainees and Training Record Section
- Appendix
Training Program Section

2. Program Plan
3. Plan for Instruction in RCR
4. Plan for Instruction in Methods for Enhancing Reproducibility
5. Multiple PD/PI Leadership Plan (if applicable)
2. Program Plan (Page limit: 25 pages)

- Rationale, Mission, and Objectives
- Curriculum and Overall Training Plan
- Career Development
- Program Oversight, Participating Faculty Selection, and Mentor Training
- Institutional and Departmental Commitment to the Program
- Training Program Director(s)/Principal Investigator(s)
- Preceptors/Mentors (Participating Faculty)
- Application Process, Trainee Positions, Retention and Support
- Training Outcomes
- Program Evaluation and Dissemination
Rationale, Mission & Objectives

• How the program will **enhance the training environment** beyond just financial support of trainees

• Justification for the program
  - Current institutional efforts to promote diversity and create inclusive training environments, and how the program will enhance, but not duplicate, these efforts

• Describe the **current research training environment** & areas for improvement

• Training mission, **objectives (specific, measurable)**
  - Informed by baseline data, trainee pool and institutional context
  - Among objectives should be PhD completion rates and Time-to-Degree
Curriculum and Overall Training Plan

- How the courses, structured activities, and research experiences will **accomplish the training mission** and objectives
- Proposed changes to current research training practices to **keep pace with the rapidly evolving biomedical research enterprise** (e.g., curricular reforms, incorporation of additional quantitative and computational skills development, etc.)
- Mechanism for ensuring that the trainees are learning the **highest standards of practice** (e.g., record keeping, safety)
- How **laboratory safety** is taught throughout the didactic and mentored portions of the program
- The use of **evidence-informed approaches** to trainee learning, mentorship, inclusion, and professional development
- Activities that will build a **strong cohort** of research-oriented individuals while enhancing the science identity, self-efficacy, and a sense of belonging
Curriculum and Overall Training Plan, cont'd.

• Representative **examples of training programs** for individual trainees

• The trainees’ academic and research **background needed** to pursue the proposed training and plans to accommodate differences in preparation among trainees

• How the training **activities will be available to other trainees** in the program(s), department(s) or institution(s) from which the supported trainees are drawn

• If applicable
  
  ○ Multi-disciplinary and/or multi-departmental programs: how the individual disciplinary and/or departmental components of the program are integrated and coordinated, and how they will relate to an individual trainee's experience

  ○ The ways the training plan is distinct from, but will share resources and synergize with, other NIGMS-funded predoctoral training programs at the same institution
Career Development

• How applicants/trainees will be provided with information about
  - career outcomes of graduates of the program and the overall biomedical research workforce landscape
  - variety of careers for which their training would be useful

• Experiential learning opportunities
  - e.g. internships, shadowing, informational interviews, teaching opportunities

• Engaging a range of potential employers so trainees have the skills, knowledge & steps to attain positions of interest in the biomedical research workforce
Program Oversight, Participating Faculty Selection, and Mentor Training

Should include:

• the planned strategy and **administrative structure** to oversee and monitor the program and to ensure appropriate and timely trainee progress

• how **faculty are trained** to use evidence-informed teaching, training and mentoring for trainees from all backgrounds

• the mechanism for **matching trainees** with the appropriate participating faculty mentors

• a mechanism to **monitor mentoring**, including oversight of the effectiveness of the trainee/participating faculty match, and a plan for removing faculty displaying unacceptable mentorship qualities
Institutional & Departmental Commitment

Describe how the level of institutional and departmental commitment to research and training excellence will promote the success of the trainees and training program.

May use this section to expand on Facilities & Other Resources and Letters of Support.
Program Director(s)/Principal Investigator(s)

- Expertise as well as administrative and training experience
- Time to commit sufficient effort given other professional obligations
- Demonstrated commitment to training the next generation of biomedical research workforce
- Received training to mentor individuals from diverse backgrounds
- Multiple PDs/PIs (MPI) approach is encouraged for different skills and perspectives. If so, include a **Multiple PD/PI Leadership Plan**
  - Co-Investigators: optional, involved in execution but do not direct
- The application should describe the administrative structure and leadership succession plan for critical positions
Create a **diverse team - for example:** underrepresented backgrounds, women, different career stages

- Have sufficient time to commit
- Receive training in evidence-informed teaching and mentoring practices
- Promote the use of highest standards of practice to ensure the safety of all
- Cooperate, interact, and collaborate
- Promote the development of skills in rigorous experimental design, methods of data collection, data analysis and interpretation, and reporting
- Provide opportunities for trainees to initiate, conduct, interpret, and present rigorous, reproducible and responsible biomedical research with increasing self-direction
- Demonstrate a commitment to effective mentoring, and to promoting inclusive, safe and supportive environments
- Are evaluated as teachers and mentors
Application Process

• Describe the admissions data provided in the **required Application and Admissions Data Attachment** (Other Attachments).

• Expand upon the **required Recruitment Plan to Enhance Diversity** (Other Attachments). Ensure a diverse pool of candidates that could strongly benefit from and succeed in the program with proper support.

• Describe the plans for a candidate review process for a broad group of trainees, a process that considers metrics beyond undergraduate institution, GPA, and standardized test scores.

• If the training program does not conduct its own recruitment and admissions for Ph.D. students entering the university - and instead appoints students who were admitted by university departments or other graduate programs, provide a strong rationale for taking this approach.
Trainee Positions

• Describe how large the program will be across all cohorts (i.e., the total number of individuals enrolled in the proposed program ranging from the entering cohort to those nearing graduation).

• Provide a strong justification for the number of requested slots per year in the context of the training grant eligible pool, the size of the proposed program, the number of participating faculty, and other NIGMS-funded training grants at the institution.

• Explain the proposed training grant support structure, i.e., how many individuals (e.g., 4 per year), at what stage (e.g., first-year entrants), and for how long (e.g., for 2 years). Note: NIGMS typically funds trainees for 2 or 3 years, during years 1-3 of the Ph.D. program, except under exceptional circumstances.

• Define and justify the selection and re-appointment criteria for the training grant supported trainees in the program.

• Do not include Trainee Selection and Appointment Procedures in the Appendix, or the application will be withdrawn due to non-compliance with the FOA instructions.
Retention and Support

• May use this section to expand upon the **required Trainee Retention Plan** (Other Attachments)

• Provide evidence of the program's commitment to ensuring the **well-being and success of all trainees** throughout their graduate training.

• Describe the ability for participating department(s) and/or the institution(s) to support trainees for the **duration of their graduate careers**.
Training Outcomes - Should Match the Training Tables

Provide recent outcomes through narrative the required training tables. Training tables allow for 5 years of recent outcomes for new applications; the application may describe up to 15 years of outcomes in the narrative. The application should describe:

- Evidence that recent program graduates conducted rigorous research that advanced scientific knowledge and/or technologies, with increasing self-direction (e.g., peer-reviewed publications in **Training Table 5A**, or other measures of scientific accomplishment appropriate to the field)

- The rate of Ph.D. degree attainment and time-to-degree for recent graduates (**Training Table 8A**). Explain how the time-to-degree was calculated. Indicate how many individuals obtained a Ph.D. degree, are still in training, left the program with a master's degree, or withdrew from the program with no degree

- A description or analysis of how the Ph.D. degree attainment, time-to-degree data, and evidence of scholarly productivity for recent program graduates from underrepresented groups (examples in **Notice of NIH's Interest in Diversity**) compared to the data for recent program graduates from well-represented groups

- The success of recent graduates transitioning to careers in the biomedical research workforce (**Training Table 8A**).
Program Evaluation and Dissemination

Programs must conduct ongoing evaluations to monitor success of the program. Describe:

- Process to determine **whether the overall program is effective** in meeting its mission and objectives, and whether the scientific research climate is inclusive, safe, and supportive of trainee development
  
  - Optional: blank Evaluation and Assessment Instruments in Appendix

- Plans for **being responsive to outcomes analyses**, critiques, surveys and evaluations

- Past activities to **track and post the career outcomes** of trainees

- Past activities designed to **share the outcomes** of the training or mentoring interventions with the broader community
3. Plan for Instruction in the Responsible Conduct of Research (RCR)

- All applications must include a plan to fulfill NIH requirements for instruction in RCR.
  - Five required components must be addressed
    - Components should be well integrated into the overall curriculum at multiple stages of trainee development in a variety of formats and contexts
- Explain how teaching of RCR synergizes with the curriculum designed to enhance trainees' abilities to conduct rigorous and reproducible research.
- Describe how all program faculty will reiterate and augment key elements when trainees are performing research in their labs.
- See requirements detailed in the FOA and the SF424 Application Guide.

4. Plan for Instruction in Methods for Enhancing Reproducibility

• The plan must describe how trainees will be instructed in principles important for enhancing research reproducibility.

• Describe how instruction strategies are well integrated into the overall curriculum, that is, how they are taught at multiple stages of trainee development and in a variety of formats and contexts.

• See the SF424 Application Guide for instructions.

• Rigor & Reproducibility Resources

  o NIH Website on Rigor and Reproducibility: https://www.nih.gov/research-training/rigor-reproducibility


  o NIGMS Administrative Supplements: https://www.nigms.nih.gov/training/instpredoc/Pages/rigor-rep.aspx
Faculty, Trainees, and Training Record Section

- Participating Faculty Biosketches
- Letters of Support
- NIH Data Tables
7. Faculty Biosketches - with personal statement addressing

- Training, mentoring, and promoting inclusive, safe and supportive scientific research environments
- Maintaining a record of, and providing training in rigorous and unbiased experimental design, methodology, analysis, interpretation, and reporting of results
- Promoting the use of highest standards of practice to ensure the safety of all individuals in the research environment
- Supporting trainees participating in activities required to identify and transition into biomedical research workforce careers of interest
- Fulfilling the need of the trainees to complete their PhDs in a timely fashion

NEW FORMAT- (NOT-OD-21-073) failure to follow the appropriate Biosketch format may cause NIH to withdraw your application from consideration.
8. Letters of Support

- Institutional Support Letter (10 page maximum) **must** be attached as part of Letters of Support
  - See detailed example components in the FOA

- Institutional Eligibility Letter (1 page maximum) **must** certify eligibility (i.e., annual RPG funding avg.)

If these letters are not included, the application will be considered incomplete and will not be reviewed.

*Other Letters of Support (e.g. partners, internships) - can be included but may not duplicate information required in the Institutional Support Letter*
### 9. Data Tables

Helpful Information before you fill out your Data Tables:

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<thead>
<tr>
<th>Introduction</th>
<th>Date Posted</th>
<th>File Link/Format/Size</th>
</tr>
</thead>
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<td></td>
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<td>PDF (437 KB)</td>
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<table>
<thead>
<tr>
<th>Data Tables</th>
<th>Date Posted</th>
<th>Blank Data Tables File Link/Format/Size</th>
<th>Instructions and Sample Data Tables File Link/Format/Size</th>
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[https://grants.nih.gov/grants/forms/data-tables.htm](https://grants.nih.gov/grants/forms/data-tables.htm)
# Required Data Tables for New Applications

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<thead>
<tr>
<th>Table</th>
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<tr>
<td>1</td>
<td>Census of Participating Departments and Interdepartmental Programs</td>
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<tr>
<td>2</td>
<td>Participating Faculty Members</td>
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<td>3</td>
<td>Federal Institutional Research Training Grant and Related Support Available to Participating Faculty Members</td>
</tr>
<tr>
<td>4</td>
<td>Research Support of Participating Faculty Members</td>
</tr>
<tr>
<td>5A</td>
<td>Publications of Those in Training: Predoctoral</td>
</tr>
<tr>
<td>8A Part III</td>
<td>Program Outcomes: Predoctoral, Recent Graduates</td>
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</tbody>
</table>

**Do not submit Table 6A**

- In the Program Plan, applicants should also summarize key data from the tables that highlight the characteristics of the applicant pool, program faculty, institutional support, student outcomes, and other factors that contribute to the overall training environment of the program.

- Applications that do not include these data tables or that submit additional data tables in the section will be withdrawn prior to review.
Removing Table 6A from Your Application

• To avoid the inclusion of Table 6A in a training data table set generated via xTRACT, applicants should omit the "Start year of the most recently completed academic year" when prompted in the Applicants/Entrants section. (See FAQ’s for more info)

• The resulting PDF will then exclude Table 6A
Applications that do not include the required appendices or that exceed the number of allowed appendices or the page limitation of any of the allowed materials will be considered noncompliant and will not be reviewed.
Other Attachments

RESEARCH & RELATED Other Project Information

1. Are Human Subjects Involved?  
   - Yes □ No □
   1a. If YES to Human Subjects
      - Is the Project Exempt from Federal regulations?  
        - Yes □ No □
        - If yes, check appropriate exemption number.
        - 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8
      - If no, is the IRB review Pending?  
        - Yes □ No □
      - IRB Approval Date:
      - Human Subject Assurance Number:

2. Are Vertebrate Animals Used?  
   - Yes □ No □
   2a. If YES to Vertebrate Animals
      - Is the IACUC review Pending?  
        - Yes □ No □
      - IACUC Approval Date:
      - Animal Welfare Assurance Number:

3. Is proprietary/confidential information included in the application?  
   - Yes □ No □

4. Does this Project Have an Actual or Potential Impact - positive or negative - on the environment?  
   - Yes □ No □
   4a. If yes, please explain:

5. If this project has an actual or potential impact on the environment, has an exemption been authorized or an environmental assessment (EA) or environmental impact statement (EIS) been performed?  
   - Yes □ No □
   5a. If yes, please explain:

6. Is the research performance site designated, or eligible to be designated, as a historic place?  
   - Yes □ No □
   6a. If yes, identify countries:

7. Project Summary/Abstract
   - Add Attachment □ Delete Attachment □ View Attachment □

8. Project Narrative
   - Add Attachment □ Delete Attachment □ View Attachment □

9. Bibliography & References Cited
   - Add Attachment □ Delete Attachment □ View Attachment □

10. Facilities & Other Resources
    - Add Attachment □ Delete Attachment □ View Attachment □

11. Equipment
    - Add Attachment □ Delete Attachment □ View Attachment □

12. Other Attachments
    - Add Attachments □ Delete Attachments □ View Attachments □

Required
• Application and Admissions Data
• Recruitment Plan to Enhance Diversity (3 pages)
• Trainee Retention Plan (3 pages)
• Outcomes Data Collection and Storage Plan (2 pages)
• Dissemination Plan (1 page)

Optional
• Advisory Committee (1 page)

Name these files as indicated in the FOA.
Application and Admissions Data

• Allows for the evaluation of the ability of participating departments/interdepartmental programs to recruit training grant eligible individuals

• To assess the admissions and recruitment process, the diversity of the pool, and the appropriate number of training positions to be awarded

• Provide the numbers and characteristics of training grant eligible (I) applicants, (II) admitted individuals, and (III) matriculants for each of the past 5 academic years as well as the average over those years

• Please use the Suggested Table Format Table A provided on the NIGMS website and report on the categories listed in NIH’s Interest in Diversity

If this plan is not included, the application will be considered incomplete and will not be reviewed.
NIGMS recommends using **Formats Table A** for applications with:

**Single departmental programs**
- Instructions and examples: [Word] | [PDF] | [HTML]
- No instructions, blank: [Word] | [PDF] | [HTML]

**Interdisciplinary programs with multiple admissions**
- Instructions and examples: [Word] | [PDF] | [HTML]
- No instructions, blank: [Word] | [PDF] | [HTML]

**Sample: Suggested Format Table A, Part Ia: Numbers and Characteristics of Applicants**

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<th>Total Applicants</th>
<th>URM</th>
<th>Applicants with Disabilities</th>
<th>Applicants from Disadvantaged Backgrounds</th>
<th>Women</th>
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<tr>
<td>Avg</td>
<td>410</td>
<td>82</td>
<td>21</td>
<td>74</td>
<td>246</td>
<td>n/a</td>
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</tbody>
</table>

Ac Yr, Academic Year; URM, Underrepresented Racial & Ethnic Minorities; n/a, not applicable; Avg, average
Recruitment Plan to Enhance Diversity (3 pages)

- Describe outreach strategies and activities to recruit trainees from underrepresented groups (see NOT-OD-20-031)
- Describe specific efforts to be undertaken by the training program, including the involvement of training program faculty
- Centralized institutional recruitment efforts alone is not sufficient
- Accommodation is not the same as outreach or active recruitment of students with disabilities

Potential effective strategies:

If this plan is not included, the application will be considered incomplete and will not be reviewed.
Trainee Retention Plan (3 pages)

• Describe efforts to sustain the scientific interests & academic and research progress of trainees from all backgrounds

• Describe the specific efforts to be undertaken by the training program, including the involvement of training program faculty

• Centralized institutional retention efforts alone are not sufficient

Resources:
https://extramural-diversity.nih.gov/building-participation/recruitment-retention

If this plan is not included, the application will be considered incomplete and will not be reviewed.
Outcomes Data Collection and Storage Plan (2 pages)

- The applicant **must** provide a plan to track the outcomes for all supported trainees for a minimum of **15 years beyond** the trainee’s participation in the program.

- Encouraged to make the aggregate outcome data available on the institution's website.

- A strategy to ensure the secure storage and preservation of program data and outcomes (i.e., centralized, safeguarded, and retrievable during leadership changes).

If this plan is not included, the application will be considered incomplete and will not be reviewed.
Dissemination Plan (1 page)

• A specific plan must be provided to disseminate nationally any findings resulting from or materials developed under the auspices of the program.

• Examples of dissemination may include data or materials from successful training or mentoring interventions via web postings, presentations at scientific meetings, and/or workshops.

If this plan is not included, the application will be considered incomplete and will not be reviewed.
Advisory Committee (1 page maximum) Optional

• An Advisory Committee is not a required component of a training program

• Describe how the Advisory Committee will assess the overall effectiveness of the program

• If an Advisory Committee is intended, the roles, responsibilities, and desired expertise of committee members, frequency of committee meetings, and other relevant information should be included

• Advisory Committee members should not be identified or contacted prior to receiving an award
Budget Overview
Budget - Participants

• Support is allowed for **Ph.D. students** in the form of **stipend**.

• Ph.D. students may be supported on G-RISE or IMSD funding usually up to **three years**.
  ○ Use in the first three years of graduate studies is encouraged

• Students may not concurrently hold another federally sponsored award that duplicates G-RISE or IMSD support.
Stipends, Tuition, and Fees

• Kirschstein-NRSA awards provide stipends as a subsistence allowance to help defray living expenses during the research training experience.

• NIH will contribute to the combined cost of tuition and fees at the rate in place at the time of award.

• Stipend levels, as well as funding amounts for tuition and fees are announced annually in the NIH Guide for Grants and Contracts, and are also posted on the Ruth L. Kirschstein National Research Service Award (NRSA) webpage.
Trainee Travel

- NIGMS will provide up to $1,000 per trainee to travel to scientific meetings or training experiences that will enhance scientific development, build science identity, create a sense of belonging in the scientific community, and build professional networks.

- For travel outside the continental United States, $1,250 for travel per trainee will be provided.
Training Related Expenses

• TRE that may be requested is limited to a maximum of $8,400/trainee/year for G-RISE
  $6,400/trainee/year for IMSD

• TRE funds may be used for costs associated with skills development training activities; seminar speakers; and with training or mentoring interventions.

• Limited program evaluation costs (typically up to $3,000 for the 5-year training grant period).

• Other program-related expenses may be included within the budget for training-related expenses.
Personnel Effort

• TRE funds may be used for personnel costs/staff salary. Typically, salary support for the PD/PI/co-Investigators (or in a combination of multiple PD(s)/PI(s)/co-Investigators) does not exceed 1.8 person months (i.e., 15% effort on a 12-month basis) in total, depending on the size and scope of the program.

• Typically, the total combined salary support for other administrative personnel (e.g., program administrator/program coordinator and/or program assistant/clerical support) does not exceed 3.0 person months (i.e., 25% effort on a 12-month basis) depending on the size and scope of the program.
xTrain for Student Appointments

• All participants **must** have an appointment form submitted through the eRA Commons to xTrain before they may receive their compensation.

• If a participant cannot continue in the grant program for the full appointment period, a termination notice must be submitted to xTrain with the correct appointment period.

• For all appointments, a termination notice must be submitted at the end of the appointment period.

xTrain Web Page - application guide, quick reference sheets, FAQs, training materials: https://era.nih.gov/services_for_applicants/other/xTrain.cfm

**Appointments are normally made in 12-month increments.**
Webinar Outline

I. Program Overview

II. Application Overview

III. Budget Overview

IV. Peer Review Overview
Peer Review

• Please read the review criteria while preparing your application to make sure all the required information is included.

• Review panel will assess your application against the review criteria.
Peer Review Cont.

• G-RISE & IMSD applications are reviewed by one of two standing NIGMS review committees: TWD-C and TWD-D. [www.nigms.nih.gov/Research/application/Pages/reviewcommittees.aspx](http://www.nigms.nih.gov/Research/application/Pages/reviewcommittees.aspx)

• Applications will be assigned to either TWD-C or -D to balance conflicts and workload and will be grouped into G-RISE / IMSD clusters for review.

• Receipt letter from scientific review officer will provide information about meeting dates, instructions for providing updates, link for committee roster, and people to contact during the review and post-review process.

• Scores and summary statements accessed through PI’s eRA Commons account.
Peer Review Cont.

All from PAR Section V under Application Review Information

Scored Review Criteria:
• Training Program and Environment
• Training Program Director(s)/Principal Investigator(s)
• Preceptors/Mentors (Participating Faculty)
• Trainee Positions, Recruitment, and Retention
• Training Record

Additional Review Criteria: Acceptable/Unacceptable
• Training in Methods for Enhancing Reproducibility
• Recruitment Plan to Enhance Diversity
• Training in the Responsible Conduct of Research
• Part of Overall Impact Score but no separate score

Additional Review Considerations:
• Budget and Period of Support
Formatting Tips

Check Application

- Allow enough time to carefully check application after submission. We cannot accept any missing items after the receipt deadline.

Page Limits

- Supply all requested materials within page limits.
- Do not “overstuff” sections that don’t have page limits or use appendices to get around the limits.

Appendices

- Note that the Appendix should only be used in circumstances covered in the NIH policy on appendix materials and as the FOA specifically instructs applicants to do so.
Application Preparation Tips

Content

• Read the program announcement and ensure that your application contains the necessary elements.

• Successful submission through Grants.gov and eRA Commons does not mean appropriate responsiveness to the program announcement.

Context

• Present the institutional framework and environment of your program.

• Be realistic in your program’s goals.
Application Preparation Tips Cont.

Comprehensive
- Address *all* of the requirements of the program announcement.
  - For example:
    - If you don’t have institutional baseline data, explain how you plan to obtain it.
    - If you haven’t fully formed your evaluation plan, at least acknowledge that you are working on it.

- Describe how your program “works”
  - For example:
    - How are students recruited and selected? By whom?
    - What does the advisory committee do? How often do they meet?
    - How have you used evaluation information in designing/improving your program?
Application Preparation Tips Cont.

Clear

• Don’t bury important information.

• Don’t expect reviewers to “read between the lines” to figure out what you are proposing.

• Present outcomes data in a straightforward manner:
  • Don’t exaggerate.
  • Don’t hide data (reviewers will “do the math”).
  • It is far better to present results as they are and address how the program aims to improve.
**Application Preparation Tips Cont.**

**Current**
- Make sure faculty biosketches are up-to-date, in correct format, and relevant for training program
- Provide data on current and prior students
- Use the most recent institutional data

**Consistent**
- **Data in tables and text should match**
- Data should be consistent across tables
- Match justification to budget items
- Refer to the correct program in text and tables
- Include a timeline for the activities
Common Pitfalls

• Institutional Eligibility Letter not included.

• Appendix violations: Required documents not included, additional documents included, page limit violations.

• Training Tables: Required Training Tables not included, additional Training Tables included, suggested Training Table included anywhere outside of the 25-page Program Plan.
# Review Process: Usual Timeline

<table>
<thead>
<tr>
<th>Timeframe</th>
<th>Activity</th>
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<tbody>
<tr>
<td>(From submission date)</td>
<td></td>
</tr>
<tr>
<td>1 - 2 months</td>
<td>Referral</td>
</tr>
<tr>
<td>2 - 6 months</td>
<td>Review Panel</td>
</tr>
<tr>
<td>6 - 7 months</td>
<td>Summary Statement Available</td>
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<tr>
<td>7 - 8 months</td>
<td>Advisory Council</td>
</tr>
<tr>
<td>8 - 9 months</td>
<td>Funding Decisions</td>
</tr>
<tr>
<td>9 - 10 months</td>
<td>Award Start Date</td>
</tr>
</tbody>
</table>

Post submission- reach out to your PO for next steps
Critical Deadlines

• Letter of Intent Due Date(s)
  • Not Applicable

• Application Due Date(s)
  • **January 28, 2022**, by 5:00pm applicant’s local time
  • Submit early to allow adequate time to correct errors found during the electronic submission process

• Scientific Merit Review – June/July 2022

• Earliest Start Date - February 2023
Questions?

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