



NIH EXTRAMURAL WORKFORCE: STAFF TRACKING PROJECTS

**Federal Demonstration Partnership
Washington, DC**

Walter T. Schaffer, Ph.D.
National Institutes of Health
Office of Extramural Research
January 12, 2009





Staff Tracking: Purpose

- Address New Statutory Requirements
 - Congressional Mandate: Section 403 of the NIH Health Reform Act of 2006 (42 USC 283)
 - Collect identifying and demographic information on postdocs; track their careers (Biennial Report)
 - Collect information on degree completion and time to degree on graduate students (Report to Director and to incoming students)
- Address Analytical Needs
 - Scientific Personnel Assessments as required by Section 489, PHS Act of 1974
 - Understand of the size and composition of biomedical research workforce
 - Proportion of New Investigators within ten years of terminal research degree or medical residency (Early Stage Investigators)
- Benefit the Research Community
 - Minimize new data collection
 - Streamline and unify profiles (Single Login - Federation - Fed-wide profiles)
 - Better links between individuals, transactions and research output; better use of existing data





1. Collect data on postdocs
2. Collect data on degree completion and time-to-degree on trainees
3. Collect data to identify Early Stage Investigators
4. Streamline systems to reduce user burden



1. Collect Data on Postdocs and others – Current Approach

Data Fields
extracted

Principal Investigator/Program Director (Last, First, Middle): Dinauer, Mary C.

KEY PERSONNEL REPORT

Place this form at the end of the signed original copy of the application. Do not duplicate.

All Key Personnel for the Current Budget Period (do not include Other Significant Contributors)

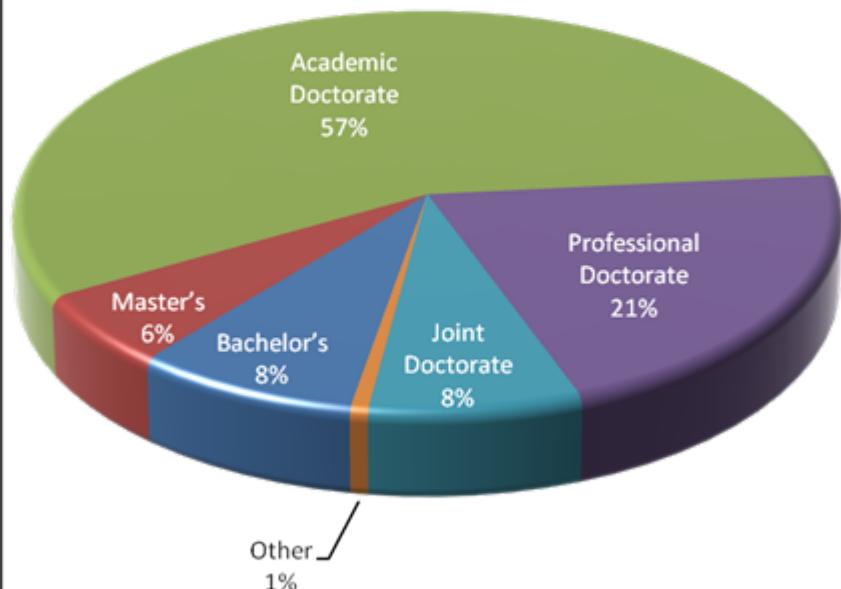
Name	Degree(s)	SSN (last 4 digits)	Role on Project (e.g. PI, Res. Assoc.)	Date of Birth (MM/DD/YY)	Months Devoted to Project		
					Cal	Acad	Summer
Dinauer, Mary C.	M.D., Ph.D.		P.I.	10/31/53	3.0		
Broxmeyer, Hal	Ph.D		Project 1 Leader	11/27/44	2.4		
Clapp, D. Wade	M.D.		Project 3 Leader	07/07/55	2.4		
Cornetta, Kenneth	M.D		Core B Leader	08/18/56	0.6		
Haneline, Laura	M.D.		Project 2 Co-Inv.	12/03/64	2.4		
Ingram Jr., David A.	M.D		Project 2 Co-Inv.	08/05/66	0.6		
Mooney, Sean D.	Ph.D		Proj 2 & 3 - Co-Inv	09/12/72	1.2		
Pollok, Karen	Ph.D.		Core C Leader	01/11/62	1.2		
Srour, Edward	Ph.D.		Core A Leader	07/15/57	1.8		
Yoder, Mervin C.	M.D		Project 2 Co-Inv	02/12/53	1.2		

LastName	FirstName	MidInitial	NamePrefix	NameSuffix	Degree	SSN	Role	DOB	PercentEffort	CalendarEffort
Dinauer	Mary	C			M.D., Ph.D.		P.I.	10/31/1953	3.00	
Broxmeyer	Hal				Ph.D		Project ...	11/27/1944	2.40	
Clapp	D	Wade			M.D.		Project ...	7/7/1955	2.40	
Cornetta	Kenneth				M.D		Core B L...	8/18/1956	0.60	
Haneline	Laura				M.D.		Project ...	12/3/1964	2.40	
Ingram	David	A		Jr.	M.D		Project ...	8/5/1966	0.60	
Mooney	Sean	D			Ph.D		Proj 2 &...	9/12/1972	1.20	
Pollok	Karen				Ph.D.		Core C L...	1/11/1962	1.20	
Srour	Edward				Ph.D.		Core A L...	7/15/1957	1.80	
Yoder	Mervin	C			M.D		Project ...	2/12/1953	1.20	

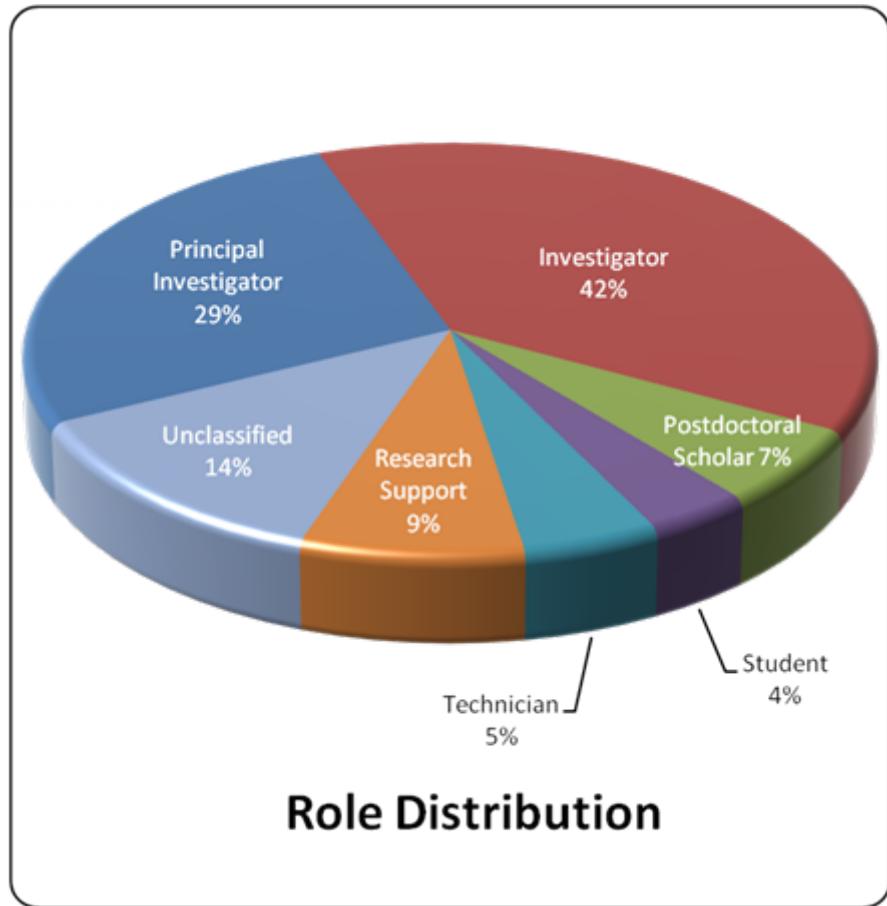


1. Collect Data on Postdocs – Current Approach

Degree Distribution

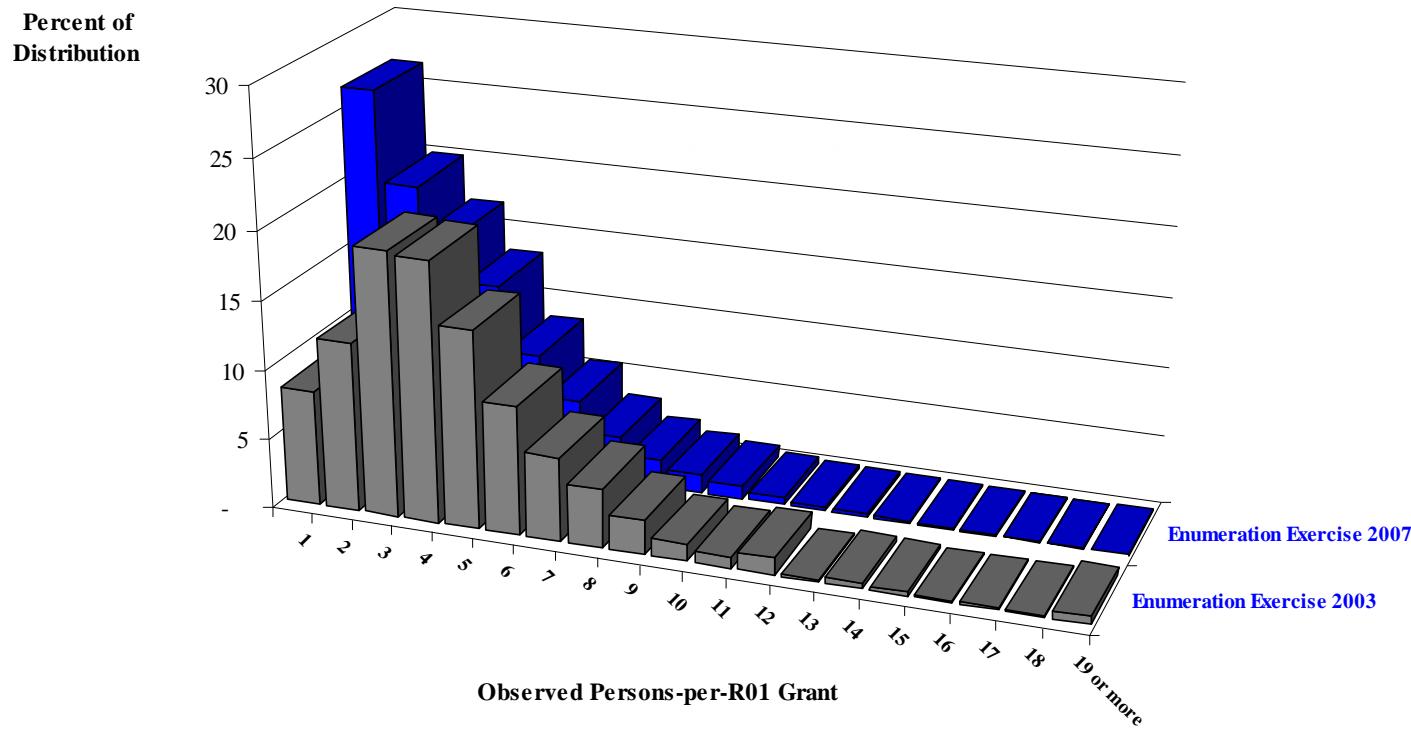


Role Distribution



1. Collect Data on Postdocs – Current Approach

Observed Persons-per-R01 Grant, Enumeration Exercises 2003 vs. 2007





1. Collect Data on Postdocs- Current Approach

After adjusting for multiple appearances and unobserved applications, we estimate there were **154,735** Key Persons supported by NIH Research Grants in FY 2006.

McGarvey, WE, Morris, P, Li, X, Li, J, Probus, M, Cissel, M, Haak, LL (2008) *How Many Scientists Do the NIH Support? Improving Estimates of the Workforce*. NIH Analysis Report 20081219, 1□23 <http://report.nih.gov/FileLink.aspx?rid=530>





1. Collect Data on Postdocs – Proposed Approach

Program Director/Principal Investigator (Last, First, Middle):

DO NOT SUBMIT UNLESS REQUESTED
Renewal Applications Only
ALL PERSONNEL REPORT

List All Personnel for the Current Budget Period
Use Cal, Acad, or Summer to Enter Months Devoted to Project

Commons ID	Name	Degree(s)	SSN (last 4 digits)	Role on Project (e.g. PD/PI, Res. Assoc.)	DoB (MM /YY)	Cal	Acad	Summer

- Forms to be cleared by OMB
- Require eRA Commons Profiles for Postdocs
- Comply with NIH Reform Act of 2006
- Joint NIH-NSF Definition of Postdoc





2. Report on Time to Degree & Degree Completion

- NIH Reform Act Requires a report from each institution receiving a training award for graduate students leading to the doctoral degrees
- Report goes to NIH Director,
- Covers graduate students supported by the NIH training award(s)
 - The percentage of such students admitted for study who successfully attain a doctoral degree, and
 - The average time (not including any leaves of absence) for such students between the beginning of graduate study and the receipt of a doctoral degree.
- Institutions must also provide this information to students applying to their programs.





2. Report on Time to Degree & Degree Completion

- Institutions assure that they will provide information to prospective students
 - decide how to present the required information
 - by department or
 - by broad program
- Grantees with training awards (T32, T90 and others)
 - Report on completion rate and time to degree for trainees supported by those awards in
 - **Table 12 A - Predoctoral Trainees Supported by this Training Grant**
 - Renewal applications and non-competing continuation progress report (PHS 2590).





3. Early Stage Investigators

- NIH Policy
 - Extension of New Investigator Policy
 - Identify and target individuals within 10 years of
 - Completing terminal research degree
 - Completing medical residency
 - Add new fields to eRA Commons Profile
 - Profile will calculate and display ESI status
 - Permit extensions of status to accommodate child care, disability, illness, active duty military service, etc.
 - Special consideration to New Investigators including ESIs at review and Award
 - Cluster New Investigator applications
 - Continue to make approximately 25% of all competing awards to new investigators
 - Majority will be ESIs
 - Comparable to current policies
 - Ramp up proportion of ESIs in the future?





4. Streamline Data Collection

- **Address explicit request from the Research Community**
 - Reduce data entry burden
 - Single Sign-On
 - Improve user experience
 - Share data between transactions and repositories (fed-wide profile?)
- **Provide better links between individuals and awards and outcome measures**
 - Other applications, awards, loans, training, publications, clinical trials, etc.
 - Improve data quality
- **Little or no new data collection!**





4. Streamlined Data Collection

Number	Approved Projects
1	New Requirement: xTrain Expansion Encompass all Appointments on a Broad Range of Institutional Research Training, Career Development and Research Education Programs
2	Study: Unified Person Data Model Analyze and document various Person data sources Propose a unified Person data model (work with NSF on Fed-Wide Profile)
3	Integrate: Commons-MyBibliography Integrate access to data; link publications to individuals and projects, reduce burden for PIs and others with Commons Profiles
4	Study: Enhance Commons Usability Analyze usability of Commons Graphic User Interface; prepare recommendations for changes to encourage more complete reporting of personal information (ultimately replace biosketch?)
5	Integrate: Commons-Loan Repayment System Integrate access to data, link LRP activity to individuals for tracking.
6	Integrate: Pilot Federated Single Sign-On to Commons Pilot Use of Federated SSO for Commons & other NIH applications

