OPTIMIZING THE NATION’S INVESTMENT IN ACADEMIC RESEARCH

A NEW REGULATORY FRAMEWORK FOR THE 21ST CENTURY, PART 1

COMMITTEE ON FEDERAL RESEARCH REGULATIONS AND REPORTING REQUIREMENTS:
A NEW FRAMEWORK FOR THE 21ST CENTURY

NOVEMBER 2015
Committee on Federal Research Regulations and Reporting Requirements: A New Framework for the 21st Century

Larry R. Faulkner, The University of Texas at Austin
Harriet Rabb, The Rockefeller University
Ilesanmi Adesida, University of Illinois at Urbana-Champaign (NAE)
Ann Arvin, Stanford University (NAM)
Barbara E. Bierer, Harvard Medical School and Brigham and Women’s Hospital and Harvard University
Jonathan D. Breul, Georgetown University
Claude Canizares, Massachusetts Institute of Technology (NAS)
Arturo Casadevall, Johns Hopkins University Bloomberg School of Public Health (NAM)
Jonathan R. Cole, Columbia University
Lee Ellis, The University of Texas MD Anderson Cancer Center
Geoffrey E. Grant, Research Advocates
Joseph R. Haywood, Michigan State University
Steven Joffe, University of Pennsylvania Perelman School of Medicine
David Korn, Massachusetts General Hospital and Harvard Medical School (NAM)
Charles F. Louis, University of California, Riverside
David W. Robinson, Oregon Health and Science University
Thomas J. Rosol, The Ohio State University
Stuart Shapiro, Rutgers University

Optimizing the Nation’s Investment in Academic Research
A New Regulatory Framework for the 21st Century, Part 1

POLICY AND GLOBAL AFFAIRS DIVISION

The National Academies of
SCIENCES • ENGINEERING • MEDICINE
“The Federal Government’s partnership with America’s colleges and universities through a variety of research grant programs remains strong but perhaps not as efficient and beneficial for American taxpayers as it could be. University management of Federal contracts, grants, and other awards requires several layers of reporting to multiple agencies, and the costs of unnecessary duplication within and across colleges and universities can be substantial. Resources that should be going to education and research are thereby diverted to less productive activities. Some of this duplication and inefficiency results from a lack of clear compliance standards, while in other cases the burdens result from accrued legacy requirements and processes that need to be reviewed and updated. Removal of unnecessary reporting burdens could free universities to further focus their resources on vital research and educational missions; to achieve this objective we need your help and engagement.”

Howard Shelanski, David Mader, and Anne Rung
“National Dialogue: Driving Efficiency for America’s Colleges & Universities,” The White House
August 14, 2015,
Charge to the Committee

The committee will conduct a study of Federal regulations and reporting requirements with specific attention to those directed at research universities. In conducting its analyses, the committee will be aware of:

(a) the context and intended benefits and circumstances under which a particular regulation was issued and may have evolved, and
(b) whether those contexts or circumstances still remain of public concern.

The committee will develop a new framework for Federal regulation of research universities in the 21st century that addresses the needs of Congress, Federal agencies, and the broader public while advancing to the maximum extent feasible the missions of research universities.
Specifically, the committee will:

1. Identify by research agency and statutory authority the Federal regulations with significant impact, and the reporting requirements with which research universities must comply;

2. Work with research universities and associations to gather and review information on personnel time and costs of compliance with Federal regulations and reporting requirements;

3. Work with research universities and associations to gather and review information on methodologies for most efficiently and effectively estimating time, costs and resulting benefits;
4. Work with federal research agencies to identify regulations and requirements with significant impact that the committee should review;

5. Work with professional staff of congressional committees with jurisdictional responsibility for regulatory oversight and research funding;

6. Work with the stakeholders such as the Federal Demonstration Partnership to demonstrate methodologies for estimating the personnel time and costs of compliance for a subset of regulations and reporting requirements specific to research universities;
7. Develop a framework and supporting principles for the Federal regulation of research universities in the 21st century, taking into account: (a) the purposes, costs, benefits, and reporting requirements of regulation, (b) the processes used to promulgate regulations and reporting requirements, (c) the roles of Congress, Offices of Inspectors General and Federal agencies, including the Office of Science and Technology Policy and the Office of Management and Budget, and (d) the missions of research universities;

8. Recommend steps needed to implement the framework;
9. Assess how a subset of regulations and reporting requirements fit within the framework, and offer suggestions for evaluating those regulations and reporting requirements that are outdated or redundant, or where compliance burdens have become disproportionate with expected benefits; and

10. Identify regulations and reporting requirements that will require additional analysis in order to assess their fit with the framework and to develop improved approaches.
Although the study was originally planned for 18 months, 3 months after the committee’s first meeting, Senator Lamar Alexander, Chair, Senate Committee on Health, Education, Labor and Pensions, asked the committee to deliver an expedited report by summer’s end, 2015.

As Senator Alexander explained to the that fall 2015 presents a unique opportunity to reconsider, in a bipartisan manner, the regulatory environment governing federally funded research, as Congress will be considering several legislative actions involving higher education, research policy, and medical innovation where it would be appropriate to make changes to the current regulatory structure.
Overarching Findings
1. Effective regulation is essential to the overall health of the research enterprise, protecting both national investment and the various parties in the partnership.

2. Continuing expansion of the federal regulatory system and its ever growing requirements are diminishing the effectiveness of the nation's research.

3. Most federal regulations, policies, and guidance, in and of themselves, are efforts to address important issues of accountability and performance, but these well-intended efforts often result in unintended consequences that needlessly encumber the nation's investment in research.

4. Many regulations fail to recognize the significant diversity of academic research.
5. When regulations are inconsistent, duplicative, or unclear, universities may place additional requirements on research investigators, thereby diminishing the effectiveness of the national investment in research.

6. Academic research institutions often receive research funding from multiple federal agencies, but approaches to similar shared goals and requirements are not harmonized across these agencies.

7. Some academic research institutions have failed to respond appropriately to investigators' transgressions or failed to use effectively the range of tools available to create an environment that strongly discourages, at both the institutional and the individual level, behaviors in conflict with the standards and norms of the scientific community.
8. Academic research institutions may be audited by any agency's Inspector General office, many of which have very different approaches that in some cases are incongruent with stated policies of their agency.

9. The relationship between federal research funding agencies and academic research institutions has for the past seven decades been considered a partnership. Yet, there exists no formal entity, mechanism, or process by which senior stakeholders from both partners, dedicated to fostering, sustaining, and strengthening our nation's unique research partnership, can consider the effectiveness of existing research policies and review proposed new policies needed to sustain a maximally dynamic, efficient, and effective research enterprise.
Overarching Recommendations
RECOMMENDATION 1

The regulatory regime (comprising laws, regulations, rules, policies, guidances, and requirements) governing federally funded academic research should be critically reexamined and recalibrated.
RECOMMENDATION 2

To advance the government-academic research partnership, research institutions must demand the highest standards in institutional and individual behavior. This can only be achieved if universities foster a culture of integrity among academic leaders, faculty, post-doctoral trainees, students, and staff, and institutional administrators, and mete out appropriate sanctions in instances where behavior deviates from the ethical and professional norms of the institution and of the academic research community. Universities that deviate from or fail to enforce the norms of behavior should be sanctioned. The committee recommends that a newly established Research Policy Board should collaborate with research institutions on the development of a policy to hold institutions accountable for such transgressions.
RECOMMENDATION 3

Inspectors General responsibilities should be rebalanced so that appropriate consideration is given both to uncovering waste, fraud, and abuse and to advising on economy, efficiency, and effectiveness.

The relationship between Inspectors General and research institutions should be based on a shared commitment to advancing the nation's interest through a dynamic and productive research enterprise.
Specific Recommendations

- Proposal Preparation
- Progress Reports
- Subrecipient Monitoring
- Conflict of Interest
- Human Subjects Research
- Animal Research

- The Audit Climate
- Compensation for Personnel Expenses
- Uniform Guidance
  - procurement standards
  - financial reporting
  - cost accounting
RECOMMENDATION FOUR

The committee recommends the creation of a new mechanism, to include an active public-private forum and a designated official within government, to foster a more effective conception, development, and harmonization of research policies.
Schematic Representation of Relationships in a New Regulatory Framework

Optimizing the Nation’s Investment in Academic Research
A New Regulatory Framework for the 21st Century, Part 1

POLICY AND GLOBAL AFFAIRS DIVISION

The National Academies of
SCIENCES • ENGINEERING • MEDICINE
Model Follows the Example of the Financial Standards Accounting Board (FASB)

- A private-sector entity formally linked to and overseen by the SEC.
- Functional and effective since 1973.
- Funded by mandatory assessments of public companies.
- Organized and financially able to undertake relevant projects on a current-need or anticipated-need basis.
Concept of the Research Policy Board

- A private-sector entity formally linked to and overseen by OSTP and OMB, using a governance basis to be determined.
- Funded by mandatory assessments of research institutions.
- Organized and financially able to undertake relevant projects on a current-need or anticipated-need basis.
- Able to work flexibly with associations.
Characteristics and Roles of the RPB

- **Mission:** To improve and maintain a regulatory environment that is conducive to optimal performance of the research partnership.
- **9-12 members from academic research institutions, 6-8 liaisons from federal agencies, all designated through formal processes.**
- **Should become the primary policy forum relating to the regulation of federal research programs in academic institutions.**
Characteristics and Roles of the RPB (cont’d)

• General responsibility *to recommend* regarding conception, development, and harmonization of regulations.

  - Thorough and informed analysis during the regulatory and policy-making process.
  - Identify negative or adverse consequences of existing policies and make actionable recommendations for improvement.
  - Conduct an ongoing assessment and evaluation of regulatory burden.
Characteristics and Roles of the RPB (cont’d)

• Should be future-oriented.
  ➢ Cognizant of trends affecting overall regulatory load.
  ➢ Should anticipate future regulatory challenges, especially from new science and technology.
  ➢ Organize expert project teams as needed.
Characteristics and Roles of the RPB (cont’d)

• Should become a more systematic, integrated, and effective operational forum on research-related matters than any or all of the historic professional associations.
  ➢ A strong focus by the Committee on a more integrated entity, formally connected to the regulatory process.
  ➢ RPB could become a means for leveraging future work by the professional associations.
Specific Recommendations
Proposal Preparation:

1. Congress should in concert with the OMB, conduct a transparent and comprehensive review of agency research grant proposal documents for the purpose of developing a uniform format to be used by all research funding agencies.

2. Research proposal information should be limited to the minimal information necessary to permit peer evaluation of the science. Any supplementary information should, if requested, be provided just-in-time.

3. Agencies should develop a central depositary for all institutional assurances.
Progress Reports:

1. The committee recommends that OMB require that research funding agencies use a uniform format for research progress reporting.
Subrecipient Monitoring:

1. OMB should amend the Uniform Guidance to clarify that subrecipient monitoring requirements apply to institutions of higher education only to the extent necessary for prudent project and performance monitoring, and do not require monitoring of subrecipients’ institutional compliance with all federal statues, regulations, policies, and institution-wide business practices.

2. Immediately, OMB should permit research institutions to use subrecipients’ publicly available Single Audit Reports to verify that subrecipients have not been otherwise debarred or suspended with respect to the receipt of federal funds.
Conflict of Interest:

1. Congress in concert with OSTP and in partnership with research institutions, should develop a federal-wide financial conflicts of interest policy to be used by all research funding agencies.
Human Subjects Research:
(To be reviewed further in light of the 9-8-15 NPRM for the Common Rule)

1. Congress should direct federal agencies to institute a risk-stratified system of human subjects protections that reduces regulatory burden on minimal-risk research while reserving more intensive regulatory oversight for higher risk research.

2. Congress should direct federal agencies to require, for multisite research studies, that a single IRB with the necessary staff and infrastructure serve as the IRB of record for all domestic sites.

3. Congress should direct agencies to align and harmonize their regulations (and definitions) concerning the protection of human subjects.
Human Subjects Research (cont.):

4) In instances of minimal-risk research where requiring informed consent would make the research impracticable, the committee recommends that Congress amend the FDA’s authority so as to allow the FDA to develop criteria for waiver or modification of the requirement of informed consent for minimal-risk research.

5) Congress should instruct HHS to work with other agencies to ensure that research involving biospecimens is eligible for a waiver or modification of informed consent, so long as the proposed research meets the conditions for waiver or modification of informed consent as specified in the Common Rule.
Animal Research:

1. Congress should direct OMB to convene representatives from federal agencies and the research community to assess and report back to Congress on the feasibility and utility of developing a unified federal approach for the development, promulgation, and management of policies and regulations pertaining to the care and use of research animals.
Animal Research (cont.):

2. Reporting, assurances, and verifications to agencies should be reduced and streamlined.
   • Agencies should adjust their requirements for reporting such that animal-related noncompliance reports are tiered to the level of significance or impact on animals and included in an annual report rather than on an individual event basis.
   • Annual reports to individual agencies about animal care programs should be replaced by a single annual report under the proposed Federalwide Assurance mechanism.

3. Research institutions should assess their own regulatory processes to determine where their compliance activities can be streamlined while still complying with federal regulations.
Compensation for Personnel Expenses:

1. The committee recommends that Congress, in concert with OMB, affirm that research institutions may take advantage of the flexibility provided by the Uniform Guidance with regard to the documentation of personnel expenses.
Uniform Guidance:

- Procurement Standards – (Raise threshold to $10,000 and amend list of criteria for noncompetitive bids)
- Financial Reporting – (establish mandatory 120-day timetable)
- Cost Accounting – (eliminate submission of DS-2 each time change to accounting practices)
The Audit Climate:

1. Inspector Generals should resolve issues regarding their interpretation of agency policies and priorities with the agency before conducting formal audits of research institutions.

2. Inspector generals should include in their semiannual reports and highlight in their presentations to Congress examples of effective, innovative, and cost-saving initiatives undertaken by research institutions and federal research agencies that both advance and protect the research enterprise.

3. They should provide to Congress and make publicly available information generated each year on the total costs (agency and institutional) of Inspectors General audits of research institutions, the total amounts of initial findings, and the total amounts paid by institutions after audit resolution.
The Audit Climate (cont.):

4. Inspector Generals should reexamine the risk-based methodology in identifying institutions as candidates for agency audits to take into account the existing compliance environment and oversight on campuses, recognizing that many research institutions have clean single audits, are well managed, and have had long-standing relationships with the federal government.

5. Encourage all agency Inspector Generals to report only final audit resolution findings on their websites and in their semiannual reports to Congress.
Following the release of the expedited report, the committee will continue its assessment, seek additional data regarding the effects of regulations on the conduct of research, hold additional meetings (including a regional meeting at Rice University), and issue a spring 2016 addendum report addressing outstanding items from its charge not captured in the current report (e.g., assess a subset of regulations against the new proposed framework and identify regulations needing further analysis), and address other regulations (e.g., export controls and dual use research of concern) that it has been unable to address comprehensively under the expedited time line.