Supporting Statement for Paperwork Reduction Submission

Grantee Reporting Requirements for Industry/University Cooperative Research Center (I/UCRC)

A. Justification

A.1. Circumstances Requiring the Collection of Data

The Industry/University Cooperative Research Centers (I/UCRC) Program was initiated in 1973 to develop long-term partnerships among industry, academe and government. The National Science Foundation invests in these partnerships to promote research programs of mutual interest, contribute to the Nation's research infrastructure base and enhance the intellectual capacity of the engineering or science workforce through the integration of research and education. As appropriate, NSF encourages international collaborations that advance these goals within the global context.

This request for reinstatement stems from the following: desire to obtain the best data available from the centers, increased transparency and accountability of the program, and changes in personnel in the program. The program's reporting requirements are outlined to prospective awardees in the solicitation. The extent and complexity of the questions go beyond the standard request for reporting, and a separate clearance would allow flexibility within the program to consider changes as needed.

The centers are catalyzed by a small investment from NSF and they are primarily supported by other private and public sector center members, with NSF taking a supporting role in the development and evolution of the I/UCRC. The I/UCRC program initially offers five-year Phase I) continuing awards. This five-year period of support allows for the development of a strong partnership between the academic researchers and their industrial and government members. After five years, centers that continue to meet the I/UCRC program requirements may request support for a second five-year (Phase II) period. These awards allow centers to continue to grow and diversify their non-NSF memberships during their Phase II period. After ten years, a Phase III award provides a third five-year award for centers that demonstrate their viability, sustainability, and which have had a significant

1

impact on industry research as measured through annual reports, site visits, and adherence to I/UCRC requirements. Centers are expected to be fully supported by industry, other Federal agencies, and state and local government partners after fifteen-years as an I/UCRC.

To enable effective oversight of its investment, NSF requires that each currently funded center provide data annually to NSF and its authorized representatives (contractors or grantees).

Centers are responsible for submitting the following information for their most recently completed fiscal year of activity, updated annually. The indicators are both quantitative and descriptive.

- Quantitative information include:
 - Number and diversity of students, faculty, and industrial numbers involved in the center
 - o Degrees granted to students involved in center activities
 - o Amounts and sources of income to the center, and
 - o Lists of patents, licenses, and publications created
- Operating budget and total funding:
 - o Total funding
 - o NSF I/UCRC funding received
 - o Other NSF funding received
 - o Additional support broken down by Industry, State, University, Other Federal, Non-Federal and other support
- Capital and in-kind support:

0	Equipment			
0	Facilities			
0	Personnel			
0	Software			
0	Other support			
Human resources:				
0	Researchers (number of faculty scientists and engineers, number of non-faculty scientists and engineers)			
0	Students (number of graduates, number of undergraduates)			
0	Administration, number of full and part time professional and clerical staff			
0	Information about broadening participation on the above with plans to increase broadening participation, if necessary			
Center director descriptors:				
0	Position and rank of director			
0	Status of tenure			
0	Name and position of the person to whom the center director reports			
0	Estimate of the percent of time the director devotes to center administration, other administration, research, teaching, other			
Center outcomes:				

0	Students receiving degrees and type degree earned				
0	Students hired by industry by type of degree				
0	Publications				
	 Number with center research 				
	 Number with Industrial Advisory Board Members 				
	 Number of presentations 				
• Intellect	tual property events:				
0	Invention disclosures				
0	Patent applications				
0	Software copyrights				
0	Patents granted and derived or both				
0	Licensing agreements				
0	Royalties realized				
I/UCRCs also include evaluations conducted by independent evaluators who cannot be from the					
department(s) w	vith the institution(s) receiving funding for the I/UCRC award.				
The center evaluators are responsible for preparing bi-annual reports of center activities:					
o With	h respect to industrial collaboration				
	nducting a survey of all center participants to probe the participant satisfaction with				
cen	ter activities				

- o Compiling a set of quantitative indicators determined by NSF to analyze the management and operation of the center
- o Participating in I/UCRC center and informational meetings
- o Reporting to NSF on the center's status using a checklist provided by NSF to help determine if the center is adhering to the IUCRC policy and guidelines
- Reporting to NSF on the top research highlights, technology transfer, patents, and major discoveries that demonstrate successful investments

The center evaluators are also responsible for:

- o Performing exit interviews to determine why members chose to withdraw from the center
- Participating in continuous quality process improvement by providing information to the
 NSF I/UCRC program

A.2. Purpose and Use of Data

Centers are required to provide data to NSF and its authorized representatives (contractors or grantees). These data are used for NSF internal reports, historical data, assessing program impact and recommending changes to strengthen the program, as well as for strengthening the program and to ensure the program remains responsive to a changing environment in order to secure future funding for continued I/UCRC program maintenance and growth. The data entered by a Center are also available for that Center's access and use.

A.3. Use of Automation

All reports are submitted electronically.

A.4. Efforts to Identify Duplication

No other federal agencies or organization within NSF collects data pertaining to the I/UCRC program.

A.5. Small Business Consideration

N/A

A. 6. Consequences of Less Frequent Collection

Less frequent data collection would preclude NSF's annual monitoring and documentation of the progress of each I/UCRC and, thus, would not allow for informed decisions about funding and timely correction of any weaknesses identified in a Center's activities. The consequence of less frequent collection would manifest itself in lack of an effective way to continuously monitor the investment of resources and time that NSF has committed to the I/UCRC Program.

A.7. Special Circumstances for Collection

N/A

A. 8. Federal Register Notice and Outside Consultation

The agency's notice, as required by 5 CFR 1320.8(d), was published in the *Federal Register* on December 28, 20108, at 75 FR 81665 and no comments were received.

A. 9. Gifts or Remuneration

N/A

A.10. Assurance of Confidentiality

Data from the centers are collected as aggregate, and no names of individuals are associated with such data collection.

A 11. Questions of a Sensitive Nature

No questions of any sensitive nature are asked.

A. 12. Estimate of Burden

This request pertains to the 68 centers (192 sites). The total number of annual reports (one per site per Center) will be 192. The estimated burden for completing the annual reports was originally estimated to decrease after the first year, and it has, as reflected below. We estimate the burden of preparing annual reports, in terms of man-hours per Center, as follows:

- 1. Site Director -10 13 hours annually
- 2. Center's Administrator -13 15 hours annually
- 3. Students graduate/undergraduate (material collection) --8-10 hours annually

Total hours per site are estimated to be 31 - 38 hours. In most cases, the burden in subsequent years is reduced to 70% of the hourly burden in the first year, although we provide estimates allowing for the average maximum anticipated effort in the first year.

Average total number of hours for 192 sites: approximately 6,720 hours.

A. 13. ANNUALIZED COST TO RESPONDENTS

Estimated cost per Site per Center, based on the most recent projections submitted in Center budgets, is as follows:

Expense category	Unit cost	Units	Total cost
Site Director/Associated	\$102/hour	10-13 hours	\$1,020 - \$1,326
Faculty			(average \$1,173)
2. Center's Administrator	\$65/hour	13-15 hours	\$845 - \$975
			(average \$910)
3. Students	\$16/hour	8-10 hours	\$128 - \$160
graduate/undergraduate			(average \$144)
4. Fringe benefits (30%) on items 1-2 (based on averages)			\$625
5. Overhead costs (55%) on items 1-4			\$1,569
Total annual cost per Site			\$4,421
Total cost for 192 sites			\$848,832

The range of cost is calculated assuming the lowest and the highest number of hours.

A. 13. Annual cost burden [not included in hour cost]

There are no additional costs beyond the estimated hours of burden shown above.

A. 14. Annualized Cost to the Federal Government (Payment to the Evaluators)

As stated above, Center evaluators are responsible for collection of certain data, report preparation, and review. There are currently 18 Center evaluators for the 68 Centers (192 sites). On average, each center has 3 sites and the evaluator compensation for a 3-site center is \$18,000. This results in a total cost of \$1,224,000 per year. In addition, the program's lead evaluator is provided

approximately \$170,000 per year. The estimated cost to the Federal Government is then approximately \$1,394,000 per year.

A. 15. Changes in Burden

The burden has gone down, as expected from the 2011 clearance request. The maximum burden was expected in the first year of reporting, with the anticipation that in the years that follow, the burden would be reduced given that a Center's internal practices and procedures would be established.

A. 16 Publication of Collection

N/A

A. 17 Approval to Not Display OMB Expiration Date

N/A

A. 18 Exception to Item 19 of OMB Form 83-I Certification Statement

N/A

B. STATISTICAL METHODS

Not applicable

Attachments

Attachment I: Please see the attached power point slides.

Attachment 2: Program solicitation (NSF Number 10-595)