

**SURVEY OF PARTICIPANTS
IN NATIONAL SCIENCE FOUNDATION'S
STATE/INDUSTRY UNIVERSITY COOPERATIVE RESEARCH CENTERS (S/IUCRC) PROGRAM**

Based on information provided to SRI by the S/IUCRCs, your firm is a member and/or affiliate of the Center identified below. Is that correct? (Note: We use the term "firm" to refer to all types of S/IUCRC Center member organizations, including military and civilian laboratories and agencies.)

[insert here label here identifying Center]

NSF is interested in determining the results and benefits of five specific S/IUCRC activities taken separately. These are:

- ◆ **Core research projects** (generic, fundamental research, relevant to industry needs, funded by member and affiliate dues);
- ◆ **Non-core research projects** (research projects sponsored by one or more firms);
- ◆ **Use of S/IUCRC facilities;**
- ◆ **Technical advice or consulting services from S/IUCRC personnel** (technical consultation in-person, by phone, or other means); and
- ◆ **Training provided by the S/IUCRC personnel** (short courses, one-on-one training from center staff)

Please indicate below the operational unit (the division, center, department, section or other organizational entity) that is the primary direct beneficiary of your firm's participation in the S/IUCRC. Note: in small companies, the entire firm may be the primary direct beneficiary.

Unit Name: _____

Most of the questions that follow are about this unit's relationship with the S/IUCRC. All responses are confidential and will be made public in summary form only. In answering the questions in this instrument, please include the results, benefits and costs of your unit's involvement with the Center over the entire period that your firm has been a member and/or affiliate of the Center.

1(A). How many years has your firm been a member and/or affiliate of the S/IUCRC? (*Check one answer.*)

1 yr 2 yrs 3 yrs 4 yrs 5 yrs 6 yrs more than 6 yrs

1(B). How many years have you been your firm's representative to the Center? (*Check one answer.*)

1 yr 2 yrs 3 yrs 4 yrs 5 yrs 6 yrs more than 6 yrs

Please consider the Center's **core research projects** (generic, fundamental research relevant to industry needs, funded by pooled member and affiliate dues).

2(A). To your knowledge, how has your unit benefited as a direct result of the **core research projects** supported collectively by the fees of member organizations? (*Check one box for each item in Section A.*)

2(B). If "yes" in Section (A): How would you rate the benefit that your unit derived? (*Check one box for each applicable item in Section B.*)

		(A) Direct Results of Core Research Projects				(B) If "Yes", Benefit Derived:				
		Yes	No	Privileged Info.	Have No Idea	Little or None	Some	Moderate Amount	A Great Deal	Have No Idea
a.	We obtained access to new ideas or know-how.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b.	Our R&D agenda was influenced.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c.	We licensed technology or software developed by the Center.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d.	We patented or copyrighted technology or software we developed as a result of interacting with the Center.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e.	We improved a product(s) or process(es).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f.	We developed a new product(s) or process(es).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g.	We had more interaction than in the past with other Center firms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h.	We were able to provide our customers/suppliers with improved technical information.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i.	We made unexpected operational changes (e.g., equipment or project additions or cancellations.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j.	Other direct results (please describe:)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please consider the Center's **non-core research projects** (research projects sponsored directly by one or more firms).

If your unit has not supported non-core research projects sponsored by one or more firms as part of your Center involvement, please skip to question 4.

3(A). To your knowledge, how has your unit benefited as a direct result of **non-core research projects** your organization supported? (Check one box for each item in Section A.)

3(B). If “yes” on (A): How would you rate the benefit that your unit derived? (Check one box for **each applicable** item in section B.)

		(A) Direct Results of Non-Core Research Projects				(B) If "Yes", Benefit Derived:				
		Yes	No	Privileged Info.	Have No Idea	Little or None	Some	Moderate Amount	A Great Deal	Have No Idea
a.	We obtained access to new ideas or know-how.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b.	Our R&D agenda was influenced.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c.	We licensed technology or software developed by the Center.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d.	We patented or copyrighted technology or software we developed as a result of interacting with the Center.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e.	We improved a product(s) or process(es).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f.	We developed a new product(s) or process(es).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g.	We had more interaction than in the past with other Center firms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h.	We were able to provide our customers/suppliers with improved technical information.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i.	We made unexpected operational changes (e.g., equipment or project additions or cancellations.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j.	Other direct results (please describe:) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. Did your unit use any of the **Center's facilities**? (Check one answer.)

Yes → Please continue.

No → Please skip to question 6.

Not sure

5(A). To your knowledge, which of the following has your unit done as a direct result of your unit's use of the **Center's facilities**? (Check one box for each item in Section A.)

5(B). If “yes” on (A): How would you rate the benefit that your unit derived? (*Check one box for each applicable item in section B.*)

		(A) Direct Results of Use of the Research Center's Facilities				(B) If "Yes", Benefit Derived:				
		Yes	No	Privileged Info.	Have No Idea	Little or None	Some	Moderate Amount	A Great Deal	Have No Idea
a.	We obtained access to new ideas or know-how.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b.	Our R&D agenda was influenced.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c.	We licensed technology or software developed by the Center.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d.	We patented or copyrighted technology or software we developed as a result of interacting with the Center.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e.	We improved a product(s) or process(es).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f.	We developed a new product(s) or process(es).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g.	We had more interaction than in the past with other Center firms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h.	We were able to provide our customers/suppliers with improved technical information.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i.	We made unexpected operational changes (e.g., equipment or project additions or cancellations.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j.	Other direct results (please describe:) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Did your unit receive any **technical advice or consulting services** (technical consultation in-person, by phone, or other means) from Center faculty, researchers, or students? (*Check one answer.*)

Yes → *Please continue.*

No → *Please skip to question 8.*

Not sure

7(A). To your knowledge, which of the following has your unit done as a direct result of the **technical advice or consulting** received from the Center? (*Check one box for each item in Section A.*)

7(B). If “yes” on (A): How would you rate the benefit that your unit derived? (Check one box for **each applicable** item in section B.)

		(A) Direct Results of Technical Advice or Consulting Received from the Research Center				(B) If "Yes", Benefit Derived:				
		Yes	No	Privileged Info.	Have No Idea	Little or None	Some	Moderate Amount	A Great Deal	Have No Idea
a.	We obtained access to new ideas or know-how.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b.	Our R&D agenda was influenced.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c.	We licensed technology or software developed by the Center.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d.	We patented or copyrighted technology or software we developed as a result of interacting with the Center.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e.	We improved a product(s) or process(es).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f.	We developed a new product(s) or process(es).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g.	We had more interaction than in the past with other Center firms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h.	We were able to provide our customers/suppliers with improved technical information.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i.	We made unexpected operational changes (e.g., equipment or project additions or cancellations.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j.	Other direct results (please describe:)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. Did any of your staff receive any **formal training from the Center faculty or researchers** (via short courses, formal one-on-one training from Center staff)? (Check one answer.)

Yes

→ Please continue.

No

→ Please skip to question 10.

Not sure

9(A). To your knowledge, which of the following has your unit done as a direct result of the **staff training** received from the Center? (Check one box for each item in Section A.)

9(B). If “yes” on (A): How would you rate the benefit that your unit derived? (Check one box for **each applicable** item in section B.)

		(A) Direct Results of Staff Training Received from the Research Center				(B) If "Yes", Benefit Derived:				
		Yes	No	Privileged Info.	Have No Idea	Little or None	Some	Moderate Amount	A Great Deal	Have No Idea
a.	We obtained access to new ideas or know-how.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 9	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 9
b.	Our R&D agenda was influenced.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 9	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 9
c.	We licensed technology or software developed by the Center.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 9	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 9
d.	We patented or copyrighted technology or software we developed as a result of interacting with the Center.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 9	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 9
e.	We improved a product(s) or process(es).	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 9	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 9
f.	We developed a new product(s) or process(es).	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 9	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 9
g.	We had more interaction than in the past with other Center firms.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 9	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 9
h.	We were able to provide our customers/suppliers with improved technical information.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 9	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 9
i.	We made unexpected operational changes (e.g., equipment or project additions or cancellations.)	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 9	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 9
j.	Other direct results (please describe:)					<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 9

10. How many Center students or graduates, if any, has your unit hired as **regular employees**? (Check one answer.)

0 None

→ Please skip to question 12.

1 One

2 Two

3 Three

4 Four or more (please specify: ___)

9 At least one, but don't know how many

→ Please answer question 11.

11. In general, how would you rate the Center students and graduates that your firm unit has hired as **regular employees** compared to students and graduates hired from non-Center engineering programs? (Check one box for each item.)

Center Students/Graduates Are:

		Much Worse	Somewhat Worse	About the Same	Somewhat Better	Much Better	Have No Idea
a.	Depth of technical knowledge.	1	2	3	4	5	9
b.	Breadth of technical knowledge.	1	2	3	4	5	9
c.	Contribution to the firm's technical work.	1	2	3	4	5	9
d.	Firm-funded training required before they became a net contributor to the firm's work.	1	2	3	4	5	9
e.	Ability to apply knowledge from different disciplines and use technologies in an integrated fashion to solve problems.	1	2	3	4	5	9
f.	Ability to solve problems within constraints of time, money, and human resources.	1	2	3	4	5	9
g.	Ability to work in interdisciplinary teams.	1	2	3	4	5	9
h.	Ability to use knowledge to develop technology.	1	2	3	4	5	9
i.	Overall preparedness for working in industry.	1	2	3	4	5	9

12. To the best of your knowledge, what is the amount that your unit actually has paid to date to the Center over the entire period that your firm has been a member and/or affiliate of the Center? *(You may indicate amounts for each item or total amount paid, as you prefer. If you are unsure, please give your best estimate.)*

Type of Support	Amount Paid to Date
Cash support	\$ _____
“In-kind” support	\$ _____
Fees for use of facilities	\$ _____
Fees for training	\$ _____
Fees for technical assistance	\$ _____
Other (please specify:) _____	\$ _____
TOTAL AMOUNT PAID	\$ _____

13. Which one of the following categories best describes the benefit/cost value of what your unit has received from the Center? (Check one answer.)

- 1 Benefits much less than costs.
- 2 Benefits somewhat less than costs.
- 3 Benefits about the same as costs.
- 4 Benefits somewhat greater than costs.
- 5 Benefits much greater than costs.
- 9 Have no idea.

14(A). If possible, please estimate any savings your firm has experienced through reduced training costs incurred for new hires who are Center students and graduates compared with training costs that are typically necessary for similar employees who are non-Center students and graduates:

Approximate dollar value: \$ _____

14(B). If possible, please estimate the cost savings from benefits other than those covered in part 14(A):

Approximate dollar value: \$ _____

15. If possible, please estimate the dollar value of financial benefits your entire firm has experienced as a result of interacting with the Center **beyond cost savings**, e.g., revenue stream from a new product, license, etc.:

Approximate dollar value: \$ _____

If we have more questions about your unit’s involvement in the Center, whom should we contact?

Name: _____

Name of Unit: _____

Title: _____

Telephone: _____

THANK YOU VERY MUCH FOR RESPONDING TO THIS SURVEY.

Please return this completed survey in the enclosed postage-paid envelope to:

Roland Bardon

SRI International

Science and Technology Policy Program

1611 North Kent Street

Arlington, VA 22209

Telephone: 703-247-8545

Fax: 703-247-8410

E-mail: bardon@wdc.sri.com