



**NATIONAL SCIENCE FOUNDATION
INDUSTRY-UNIVERSITY
COOPERATIVE RESEARCH CENTERS
EVALUATION PROJECT**

Faculty Process/Outcome Data Results

**National Faculty Data Results
Data received from out 170 of 391 faculty at 34 centers
(43.48% individual response rate)**

Table I. YOUR RESEARCH EFFORT

1) Compared to the research projects which you typically conduct outside the Center, would you describe your Center-funded research as:

		<u>Individual Frequencies</u>										<u>Center Level</u>	
		Much more basic (1)		More basic (2)		Same (3)		More Applied (4)		Much more applied (5)			
a.		N	%	N	%	N	%	N	%	N	%	Mean	S.D.
		0	0	11	6.5	70	41.4	78	46.2	10	5.9	3.54	.52
		Much Broader in Scope (1)		Broader (2)		Same (3)		Narrower (4)		Much Narrower in Scope (5)			
b.		N	%	N	%	N	%	N	%	N	%	Mean	S.D.
		1	.6	33	19.8	73	43.7	49	29.3	11	6.6	3.20	.58
		Much Longer Time Frame (1)		Longer (2)		Same (3)		Shorter (4)		Much Shorter Time Frame (5)			
c.		N	%	N	%	N	%	N	%	N	%	Mean	S.D.
		3	1.8	20	11.9	53	31.5	81	48.2	11	6.5	3.44	.65

Table 2. KNOWLEDGE PRODUCTION

2) During the past year:

a) How many **publications** in the open literature have you had based on Center research?

		<u>Center Level</u>	
		Based on Center research	Outside of center research
		Mean: 1.85 SD: 1.60	Mean: 4.57 SD: 3.92
		Mean: 2.94 SD: 3.40	Mean: 5.13 SD: 4.59

b) How many **presentations** have you made at conferences or professional meetings based on Center research?

c) How many **theses/dissertations** based on Center research are under your supervision?

Number completed
Number still in progress

		<u>Center Level</u>	
		Based on Center research	Outside of center research
		Mean: .62 SD: .61	Mean: 1.98 SD: 1.91
		Mean: 1.26 SD: 2.01	Mean: 2.56 SD: 1.98
		For Center Research	For Other Research
		Mean: 2.90 SD: 3.40	Mean: 3.12 SD: 2.26

d) Approximately how much **research funding** did you receive last year? Include direct and indirect funding.

For "Center Research": 0 = \$0; 1 = \$1-\$24,999; 2 = \$25,000-\$49,999; 3 = \$50,000-\$74,999; etc...

For "Other Research": 0 = \$0; 1 = \$1-\$99,999; 2 = \$100,000-\$199,999; 3 = \$200,000-\$299,999; etc...

e) How likely is it that you could **find alternative funding** for the research you do in the center?

								<u>Individual Frequencies</u>			
Not Likely (1)		Somewhat Likely (2)		Very Likely (3)		Extremely Likely (4)		Mean		S.D.	
N	%	N	%	N	%	N	%				
35	21.1	91	54.8	35	21.1	5	3.0	1.98		.47	

3) During the time you have been involved in the center, how many intellectual property events have you been involved with?		For Center Research	For Other Research
	Inventions disclosed	Mean: .78 SD: 2.19	Mean: .72 SD: .93
	Patent Applications Filed	Mean: .44 SD: 1.01	Mean: .50 SD: .77
	Patents Received	Mean: .29 SD: .94	Mean: .29 SD: .50

4) How long, on average, do you feel that it should take for a new Center research project to yield tangible results?

Number of Months
Mean: 16.78
SD: 5.66

Table 3. INVESTIGATOR REWARDS

5) What impact has participation in the Center had for YOU in the following areas?

	<u>Individual Level</u>										<u>Center Level</u>	
	No Impact (1)		Somewhat Positive Impact (2)		Moderately Positive Impact (3)		Very Positive Impact (3)		Extremely Positive Impact (4)		Mean	S.D.
	N	%	N	%	N	%	N	%	N	%		
a. The feeling of accomplishment I get from the work I do.	5	2.9	14	8.4	52	31.1	74	44.3	22	13.2	3.60	.53
b. Opportunities for consulting.	68	40.0	41	24.7	34	20.5	21	12.7	2	1.2	2.07	.81
c. The feeling of satisfaction I get from knowing I am making a contribution to technological development.	8	4.7	19	11.3	49	29.2	73	43.5	19	11.3	3.52	.46
d. Opportunities for research contracts/grants.	14	8.4	31	18.7	45	27.1	54	32.5	22	13.3	3.15	.79
e. Chances for promotion, tenure, and/or salary increases.	45	27.1	23	13.9	45	27.1	44	26.5	9	5.4	2.57	.78
f. The recognition I receive for the work I do.	12	7.1	37	22.0	38	22.6	64	38.1	17	10.1	3.19	.83
g. The level of challenge posed by conducting center research.	16	9.5	22	13.1	47	28.0	71	42.3	12	7.1	3.22	.69
h. Access to useful equipment	45	26.9	28	16.8	34	20.4	40	24.0	20	12.0	2.67	.93
i. Ability to support graduate students	18	10.7	21	12.5	47	28.0	59	35.1	23	13.7	3.25	.85

Table 4. SATISFACTION

6) During the past year, how satisfied were you with the following features of the center?

	Individual Level										Center Level	
	Not Satisfied (1)		Slightly Satisfied (2)		Somewhat Satisfied (3)		Quite Satisfied (4)		Very Satisfied (5)		Mean	S.D.
	N	%	N	%	N	%	N	%	N	%		
<i>a. Quality of the research program</i>	6	3.6	13	7.8	33	19.8	77	46.1	38	22.8	3.68	.81
<i>b. Relevance of the research program to my needs</i>	9	5.4	14	8.4	38	22.9	75	45.2	30	18.1	3.61	.74
<i>c. Center administration and operations</i>	11	6.7	15	9.1	37	22.4	50	30.3	52	31.5	3.68	.88
<i>d. Amount of funding I receive for conducting research</i>	22	13.5	22	13.5	56	34.4	51	31.3	12	7.4	3.07	.74
<i>e. Amount of autonomy I have in conducting research</i>	6	3.6	6	3.6	26	15.7	84	50.6	44	26.5	3.99	.55
<i>f. Interactions with industry members</i>	6	3.6	20	12.1	40	24.2	59	35.8	40	24.2	3.61	.88
<i>g. The facilities and equipment</i>	9	5.5	22	13.4	43	26.2	66	40.2	24	14.6	3.41	.65
<i>h. How supportive the center is in helping me achieve my research goals.</i>	9	5.5	22	13.3	39	23.6	59	35.8	36	21.8	3.58	.77
<i>i. The quality of industrial research</i>	5	3.1	23	14.2	53	32.7	61	37.7	20	12.3	3.37	.81

Table 5. COMMITMENT

7) Think about your involvement in the center and rate your level of agreement or disagreement according to the scale below:

	Strongly Disagree 1	Moderately Disagree 2	Slightly Disagree 3	Neither Agree or Disagree 4	Slightly Agree 5	Moderately Agree 6	Strongly Agree 7	Center Level	
	Individual Frequencies							Mean	S.D.
	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)		
<i>a. I find that my values and the center's are very similar.</i>	2(1.2)	9(5.3)	12(7.1)	17(10.4)	23(14.1)	50(30.7)	50(30.7)	5.43	1.00
<i>b. It would take very little in my present circumstances to cause me to leave this center.</i>	61(37.4)	35(21.5)	12(7.4)	24(14.7)	8(4.9)	17(10.4)	6(3.7)	2.70	1.05
<i>c. This center really inspires the very best in me in the way of doing research.</i>	7(4.2)	11(6.7)	6(3.6)	30(18.2)	32(19.4)	46(27.9)	33(20)	5.05	1.02
<i>d. I am proud to tell other I am a part of this center.</i>	4(2.4)	3(1.8)	1(.6)	13(7.9)	24(14.6)	46(28)	73(44.5)	5.85	.95
<i>e. There's not much to be gained by sticking with this center for the foreseeable future.</i>	90(54.9)	24(14.6)	13(7.9)	12(7.3)	11(6.7)	9(5.5)	5(3.0)	2.33	1.30
<i>f. For me, this is the best of all possible funding opportunities for which to do research.</i>	23(14.1)	23(14.1)	20(12.3)	31(19)	22(13.5)	31(19)	13(8.0)	4.19	1.29
<i>g. I talk about the center with my colleagues as a great place to do research.</i>	7(4.2)	15(9.0)	12(7.2)	30(18.1)	20(12.0)	48(28.9)	34(20.5)	4.81	1.12
<i>h. Deciding to do research with this organization was a definite mistake on my part.</i>	123(74.1)	11(6.6)	11(6.6)	9(5.4)	8(4.8)	1(.6)	3(1.8)	1.79	.82

Table 6. LEADERSHIP STYLE

8) Concerning your center director (your site director if you are part of a multi-site center), please rate the degree to which he or she possesses the following qualities:

	<div style="display: flex; justify-content: space-between; align-items: center;"> Much too little ← Too Little Just the right amt. Too much → Much too much </div>									<u>Center Level</u>
	-4	-3	-2	-1	0	1	2	3	4	
	Individual Frequencies									
	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	
a. Steps in – gets personally involved when problems arise	8 (4.9)	2 (1.2)	12 (7.4)	22 (14)	115 (71)	1 (.6)	0 (0)	1 (.6)	2 (1.2)	Mean: -.43 SD: .62
b. Trusts people to handle problems that come up in their area of responsibility	4 (2.5)	3 (1.9)	6 (3.7)	7 (4.3)	129 (78)	7 (4.3)	2 (1.2)	1 (.6)	3 (1.9)	Mean: -.14 SD: .60
c. Lets people know clearly where he/she stands on issues. Declares him/herself	8 (4.9)	8 (4.9)	7 (4.3)	21 (13)	110 (67)	3 (1.8)	5 (3.0)	0 (0)	2 (1.2)	Mean: -.28 SD: .73
d. Interested in where other people stand on issues. Receptive to their ideas	7 (4.3)	4 (2.5)	7 (4.3)	13 (8.0)	124 (77)	2 (1.2)	2 (1.2)	1 (.6)	2 (1.2)	Mean: -.35 SD: .74
e. Pushes people hard	4 (2.5)	5 (3.1)	10 (6.2)	28 (17)	101 (62)	5 (3.1)	7 (4.3)	1 (.6)	1 (.6)	Mean: -.19 SD: .73
f. Provides emotional support. Offers encouragement	6 (3.5)	2 (1.2)	9 (5.5)	11 (6.7)	124 (76)	6 (3.7)	4 (2.4)	0 (0)	2 (1.2)	Mean: -.18 SD: .62

Leadership Summary				
Forceful	Mean	-.30	SD	.60
Enabling	Mean	-.22	SD	.42
Versatility Index	Mean	83.43 %	SD	19.73%
Frequency of Leadership Styles	Underskilled (0)		63 (39.4%)	
	Versatile (1)		75 (86.3%)	
	Forceful (2)		6 (3.8%)	
	Enabling (3)		11 (6.9%)	
	Incoherent pattern(4)		5 (3.1%)	

GENERAL COMMENTS

9) *How can the center improve its research and/or administrative functions?*

Table 7. BACKGROUND

	N	%	
10) <i>What is your gender?</i>	140	83.8	Male
	27	16.2	Female
11) <i>How many years have you been involved with the center?</i>	Mean: 5.81		
	SD: 4.05		
	N	%	
12) <i>Is your university:</i>	151	93.2	Public
	11	6.8	Private
	N	%	
13) <i>What is your academic rank?</i>	33	20.4	Assistant Professor ⁽¹⁾
	37	22.8	Associate Professor ⁽²⁾
	80	49.4	Full Professor ⁽³⁾
	12	7.4	Other (please state) ⁽⁴⁾ :
	N	%	
14a) <i>Are you tenured?</i>	103	61.7	Yes
	64	38.3	No
14b) <i>If NO, are you in a tenure track position?</i>	39	60.9	Yes
	25	39.1	No