

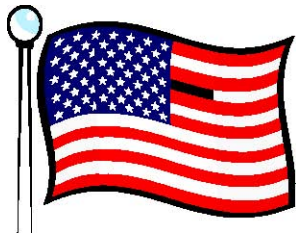
Budgets and Budget Narratives for University of Illinois Urbana-Champaign proposal

**Bioenergy and Biological Systems Engineering: An Educational Consortium for a Sustainable Agriculture – PI – Richard S. Gates - UIUC**

Submitted to:

## **U.S. DEPARTMENT OF EDUCATION**

Office of Postsecondary Education  
Fund for the Improvement of Postsecondary Education  
Washington, DC 20006-8544



Fiscal Year 2009

**Application for Grants Under the  
U.S.-Brazil Higher Education Consortia Program**

**(CFDA NUMBER: 84.116M)**

UIUC Budget

UIUC Budget Spreadsheet						
	Line #	2009	2010	2011	2012	total
Personnel (1 person-month/yr)	4	7,276	10,421	10,624	10,846	39,171
Fringe Benefits	5	2,639	3,683	3,755	3,834	13,916
Travel	6	9,998	10,000	11,008	9,102	40,108
Equipment	7	0	0	0	0	0
Supplies	8	1,500	1,425	0	0	2,925
Contractual (evaluator fee)	9	2,500	2,500	2,500	2,500	10,000
Other (conference fee)	10	5,000	0	5,000	0	10,000
Total direct costs (lines 4-10)	11	28,913	28,029	32,887	26,282	116,111
Indirect Costs (8% of mt dc incl subaward)		3,483	3,072	2,631	2,103	11,289
Mobility Stipends	13	0	32,000	32,000	32,000	96,000
Language Stipends	14	2,600	8,000	8,000	8,000	26,600
Total of Stipends	15	2,600	40,000	40,000	40,000	122,600
Total Request from FIPSE I 11,12,15)	16	34,996	71,102	75,518	68,385	250,000
<b>Purdue Subcontract for FIPSE/CAPES Proposal</b>						
		Year 1	Year 2	Year 3	Year 4	Total
4. Personnel (PD 50% project total)		\$4,826	\$4,921	\$5,014	\$5,124	\$19,885
5. Fringe Benefits		\$1,829	\$1,865	\$1,900	\$1,942	\$7,536
6. Travel		\$3,998	\$4,000	\$4,008	\$3,994	\$16,000
7. Equipment		\$0	\$0	\$0	\$0	\$0
8. Supplies		\$1,500	\$0	\$0	\$0	\$1,500
9. Contractual		\$0	\$0	\$0	\$0	\$0
10. Other		\$0	\$0	\$0	\$0	\$0
11. Total Direct Cost		\$12,153	\$10,786	\$10,922	\$11,060	\$44,921
12. Indirect Costs (8% of MDTC)		\$972	\$863	\$874	\$885	\$3,594
13. Mobility Stipends		\$0	\$16,000	\$16,000	\$16,000	\$48,000
14. Language Stipends		\$1,500	\$3,200	\$3,200	\$3,200	\$11,100
15. Total Stipends		\$1,500	\$19,200	\$19,200	\$19,200	\$59,100
16. Total Requested		\$14,625	\$30,849	\$30,996	\$31,145	\$107,615

## UIUC Cost Share Budget

### PROJECT COSTS NOT COVERED BY FIPSE

These include institution support for the cost of a portion of the salary, benefits and federally negotiated indirect cost rates (48.2% UIUC) for five faculty advisors at UIUC (PI Gates, co-PIs Green, Hansen, Rodriguez, Ting and Zhang).

Personnel: 3 person-months effort per year (9-month basis) is assumed, at a \$10,000 per person-month and Fringe Benefits: 33.06% fringe benefit rate.

Total Direct Costs: \$164,526

Indirect Costs (48.2% of total direct costs): \$79,302

Unrecovered Indirect Costs (the difference between each institution's federally negotiated indirect rate and the FIPSE-allowed rate of 8%) is also included as costs not covered by FIPSE. (48.2% rate, less 8% charged, multiplied by \$117,970 total direct costs of proposal): \$38,668

Total F&A not covered by FIPSE: \$117,970

Total project costs not covered by FIPSE are thus \$282,496; and the funds requested from FIPSE are \$250,000, for an institutional match greater than 1:1.

	Line #	2009	2010	2011	2012	Total
Personnel (3 person-month/yr)	4	30,000	30,600	31,212	31,836	123,648
Fringe Benefits	5	9,918	10,116	10,319	10,525	40,878
Travel	6	0.00	0.00	0.00	0.00	0.00
Equipment	7	0.00	0.00	0.00	0.00	0.00
Supplies	8	0.00	0.00	0.00	0.00	0.00
Contractual (evaluator fee)	9	0.00	0.00	0.00	0.00	0.00
Other (conference fee)	10	0.00	0.00	0.00	0.00	0.00
Total direct costs (lines 4-10)		39,918	40,716	41,531	42,361	164,526
Indirect Costs (48.2% of Line 11)		12,617	11,102	8,830	6,119	38,668
Unrecovered Indirects (40.2% of FIPSE)		13,590	10,481	12,600	10,701	47,373
total f&a not charged	11	31,857	30,728	28,848	26,537	117,970
Mobility Stipends	13	0.00	0.00	0.00	0.00	0.00
Language Stipends	14	0.00	0.00	0.00	0.00	0.00
Total of Stipends	15	0.00	0.00	0.00	0.00	0.00
Total not requested from FIPSE	16	71,775	71,444	70,378	68,899	282,496

## UIUC Budget Narrative – Yr 1

FUNDS REQUESTED FROM FIPSE –see attached spreadsheet

The lead institution, University of Illinois at Urbana-Champaign (UIUC) budget breakdown is as follows:

1. Personnel

Partial salary support for faculty is requested. This support will be used to partially offset faculty effort on the project. Total Year 1 salary funds requested are \$2,450.

2. Fringe benefits

Per UIUC guidelines, the fringe benefit rate is computed as 33.06% of faculty salary which for UIUC equals \$810. Total Year 1 fringe benefit funds requested are \$810.

3. Travel

Funds are requested to pay for two UIUC faculty person to travel to the annual Project Director's meetings in the US in Year 1. Additionally, in Year 1 funds are requested for faculty at UIUC to travel to Brazil partner institutions and industry collaborators. These trips will allow our Consortium to participate in curriculum development, to continue to develop institutional frameworks for the collaboration, and to collaborate with Brazilian colleagues. A total of \$6,000 in Year 1 is requested, with \$2,000. for domestic and \$4,000. for foreign travel in the UIUC budget.

4. Equipment – No funds are requested.

5. Supplies – No funds are requested.

6. Contractual

In Year 1, \$2,500 per year is allocated for an agency-required external evaluation of our program. This project's evaluation will be done by Prof. Conrad Heatwole of Virginia Tech University.

Sub-award – see attached spreadsheet – PU Sub-award

- A. Salaries - Partial salary support for faculty is requested. This support will be used to partially offset the faculty effort on the project. Total Year 1 salary funds requested are \$4,826.
- B. Benefits - Per PU guidelines, the fringe benefit rate is computed as 37.9% of faculty salary which for PU equals \$1,829. Total Year 1 fringe benefit funds requested are \$1,829.

## UIUC Budget Narrative – Yr 1

- C. Travel - One PU partner to travel to the annual Project Director's meetings in the US in Year 1. Additionally, in Year 1 funds are requested for US faculty (UIUC & PU) to travel to Brazil partner institutions and industry collaborators. These trips will allow our Consortium to participate in curriculum development, to continue to develop institutional frameworks for the collaboration, and to collaborate with Brazilian colleagues. A total of \$3,998. in Year 1 is requested for foreign travel in the sub-award travel budget.
- D. Equipment – No funds are requested.
- E. Supplies - PU requests funds of \$1,500 in Year 1 to supplement costs incurred for expenses including office supplies, brochure printing, telephone and other communications charges including internet services and cellular services (these are normally a part of direct overhead, but necessary for the conduct of this project).
- F. Contractual – No funds are requested.
- G. Other – No funds are requested.
- H. Total Direct Costs - In Year these funds are \$13,653.
- I. Indirect Costs - Per instructions of the FIPSE RFA, an 8% indirect charge is allowable. Calculated on the MTDC funds of \$12,153. (not Total Direct Costs) the funds requested are \$972. No indirect costs are calculated on the contractual costs of the reviewer or the Mobility and Language Stipends. Nor was any indirect costs calculated on these exempt items by us in the PU sub-award.
- J. Student Mobility Stipends – No funds are requested in Year 1.
- K. Student Language Stipends – In Year 1, \$1,500. is requested by PU to fund language training for up to four promising students in preparation for study abroad in the following years. If this is not expended in Year 1 it will be moved into budget Years 2, 3 and 4 in this category and the per student language training will be increased accordingly.
- L. Total Request from FIPSE - Total request (total direct costs + indirect costs + student mobility and language training) in Year 1 is \$14,625.

### 7. Other -

In Year 1 of the UIUC budget \$5000. is specifically reserved for registration and conference expenses for hosting the 2009 U.S.-Brazil meeting in the United States. We understand that FIPSE will provide instructions on the disbursement of these funds. This amount may not be used for any other grant expenses. PU has no funds on this budget line.

## UIUC Budget Narrative – Yr 1

### 8. Total Direct Costs

Total direct costs are calculated as the sum of personnel, fringe benefits, travel, supplies, contractual (evaluator payment) and other expenses (conference fees) for UIUC. In Year 1, this total is \$32,485.

### 9. Indirect Costs

Per instructions of the FIPSE RFA, an 8% indirect charge is allowable. Calculated on the MTDC funds of \$31,385. (not Total Direct Costs) the funds requested are \$2,511. No indirect costs are calculated on the contractual costs of the reviewer or the Mobility and Language Stipends. Nor was any indirect costs calculated on these exempt items by us in the PU sub-award. UIUC calculates indirect costs on the 1<sup>st</sup> \$25,000. of a sub-award, so some of the funds from this calculation are included in Year 1 and Year 2 Total Indirect Cost.

### 10. Student Mobility

With respect to student mobility, we do not anticipate sending any students from UIUC in Year 1.

### 11. Student Language Training

In Year 1 \$1,100. is requested by UIUC to fund language training for up to four promising students in preparation for study abroad in the following years. If this is not expended in Year 1 it will be moved into budget Years 2, 3 and 4 in this category and the per student language training will be increased accordingly.

### 12. Total Request from FIPSE

Total request (total direct costs + indirect costs + student mobility and language training) in Year 1 is \$34,996.

## UIUC Budget Narrative – Yr 2

FUNDS REQUESTED FROM FIPSE –see attached spreadsheet

The lead institution, University of Illinois at Urbana-Champaign (UIUC) budget breakdown is as follows:

### 1. Personnel

Partial salary support for faculty, equivalent to approximately 1 person-month per year, is requested (based on 9-month appointment). This support will be used to partially offset the faculty effort on the project, equating to about one week per co-PI per annum. Annual increases of 2% are assumed in subsequent years. Total Year 2 salary funds requested are \$5,500.

### 2. Fringe benefits

Per UIUC guidelines, the fringe benefit rate is computed as 33.06% of faculty salary which for UIUC equals \$1,818. Total Year 2 fringe benefit funds requested are \$1,818.

### 3. Travel

Funds are requested for two UIUC faculty to travel to the annual Project Director's meetings in Brazil in Year 2. Additionally, in Year 2 funds are requested for faculty at UIUC to travel to Brazil partner institutions and industry collaborators. These trips will allow our Consortium to participate in curriculum development, to continue to develop institutional frameworks for the collaboration, and to collaborate with Brazilian colleagues. A total of \$6,000 in Year 2 is requested, with \$1,000. for domestic and \$5,000. for foreign travel in the UIUC budget.

### 4. Equipment – No funds are requested.

### 5. Supplies – UIUC requests funds of \$1,425. in Year 2 to supplement costs incurred for expenses including office supplies, brochure printing, telephone and other communications charges including internet services and cellular services (these are normally a part of direct overhead, but necessary for the conduct of this project).

### 6. Contractual

In Year 2, \$2,500 per year is allocated for an agency required external evaluation of our program. This project's evaluation will be done by Prof. Conrad Heatwole of Virginia Tech University.

Sub-award – see attached spreadsheet – PU Sub-award

## UIUC Budget Narrative – Yr 2

- A. Salaries - Partial salary support for faculty, equivalent to approximately 1 person-month, is requested. This support will be used to partially offset the faculty effort on the project. Annual increases of 2% are assumed in subsequent years. Total Year 2 salary funds requested are \$4,921.
  - B. Benefits - Per PU guidelines, the fringe benefit rate is computed as 37.9% of faculty salary which for PU equals \$1,865. Total Year 2 fringe benefit funds requested are \$1,865.
  - C. Travel - In Year 2 funds are requested for PU faculty to travel to Brazil partner institutions and industry collaborators and to attend the annual Project Directors Meeting. These trips will allow our Consortium to participate in curriculum development, to continue to develop institutional frameworks for the collaboration, and to collaborate with Brazilian colleagues. A total of \$4,000. in Year 2 is requested for foreign travel in the sub-award travel budget.
  - D. Equipment – No funds are requested.
  - E. Supplies – No funds are requested.
  - F. Contractual – No funds are requested.
  - G. Other – No funds are requested.
  - H. Total Direct Costs – In Year 2 the total direct costs by PU are \$29,986.
  - I. Indirect Costs - Per instructions of the FIPSE RFA, an 8% indirect charge is allowable. Calculated on the MTDC funds of \$10,786. (not Total Direct Costs) the funds requested are \$863. No indirect costs are calculated on the contractual costs of the reviewer or the Mobility and Language Stipends. Nor was any indirect costs calculated on these exempt items by us in the PU sub-award.
  - J. Student Mobility Stipends – In Year 2, the UIUC requests \$16,000. for student mobility. We anticipate sending 4 students from PU in Year 2. The student mobility amount requested is \$4,000 per student, or \$16,000 in Year 2.
  - K. Student Language Stipends – In Year 2 the language stipend is anticipated to be for 4 students from PU. The language training is calculated at \$800./student, or \$3,200. in Year 2.
  - L. Total Request from FIPSE - Total request (total direct costs + indirect costs + student mobility and language training) in Year 2 is \$30,849.
7. Other – No funds requested.
8. Total Direct Costs



## UIUC Budget Narrative – Yr 2

Total direct costs are calculated as the sum of personnel, fringe benefits, travel, supplies, contractual (evaluator payment) and other expenses (conference fees) for UIUC. In Year 2, this total is \$68,892.

### 9. Indirect Costs

Per instructions of the FIPSE RFA, an 8% indirect charge is allowable. Calculated on the MTDC funds of \$27,618. (not Total Direct Costs) the funds requested are \$2,209. No indirect costs are calculated on the contractual costs of the reviewer or the Mobility and Language Stipends. Nor was any indirect costs calculated on these exempt items by us in the PU sub-award.

### 10. Student Mobility

In Year 2, the UIUC requests \$16,000. for student mobility. We anticipate sending 4 students from UIUC in Year 2. The student mobility amount requested is \$4,000 per student, or \$16,000 in Year 2.

### 11. Student Language Training

In Year 2 the language stipend is anticipated to be for 4 students from UIUC. The language training is calculated at \$1,200/student, or \$4,800 in Year 2.

### 12. Total Request from FIPSE

Total request (total direct costs + indirect costs + student mobility and language training) in Year 1 is \$71,102.

## UIUC Budget Narrative – Yr 3

FUNDS REQUESTED FROM FIPSE –see attached spreadsheet

The lead institution, University of Illinois at Urbana-Champaign (UIUC) budget breakdown is as follows:

1. Personnel

Partial salary support for faculty, equivalent to approximately 1 person-month per year, is requested (based on 9-month appointment). This support will be used to partially offset the faculty effort on the project, equating to about one week per co-PI per annum. Annual increases of 2% from Year 2 are assumed. Total Year 3 salary funds requested are \$5,610.

2. Fringe benefits

Per UIUC guidelines, the fringe benefit rate is computed as 33.06% of faculty salary which for UIUC equals \$1,855. Total Year 3 fringe benefit funds requested are \$1,855.

3. Travel

Funds are requested for one UIUC faculty person to travel to the annual Project Director's meetings in the US in Year 3. Additionally, in Year 3 funds are requested for faculty at UIUC to travel to Brazil partner institutions and industry collaborators. These trips will allow our Consortium to participate in curriculum development, to continue to develop institutional frameworks for the collaboration, and to collaborate with Brazilian colleagues. A total of \$7,000 in Year 3 is requested, with \$3,000. for domestic and \$4,000. for foreign travel in the UIUC budget.

4. Equipment – No funds are requested.

5. Supplies – No funds are requested.

6. Contractual

In Year 3, \$2,500 per year is allocated for an agency required external evaluation of our program. This project's evaluation will be done by Prof. Conrad Heatwole of Virginia Tech University.

Sub-award – see attached spreadsheet – PU Sub-award

- A. Salaries - Partial salary support for faculty, equivalent to approximately 1 person-month, is requested. This support will be used to partially offset the faculty effort on the project. Annual increases of 2% from Year 2 are assumed. Total Year 3 salary funds requested are \$5,014.

## UIUC Budget Narrative – Yr 3

- B. Benefits - Per PU guidelines, the fringe benefit rate is computed as 37.9% of faculty salary which for PU equals \$1,900. Total Year 3 fringe benefit funds requested are \$1,900.
  - C. Travel - Funds are requested for one PU faculty person to travel to the annual Project Director's meetings in the US in Year 3. Additional funds are requested for PU faculty to travel to Brazil partner institutions and industry collaborators. These trips will allow our Consortium to participate in curriculum development, to continue to develop institutional frameworks for the collaboration, and to collaborate with Brazilian colleagues. A total of \$4,008. in Year 3 is requested for foreign travel in the sub-award travel budget.
  - D. Equipment – No funds are requested.
  - E. Supplies – No funds are requested.
  - F. Contractual – No funds are requested.
  - G. Other – No funds are requested.
  - H. Total Direct Costs – In Year 3 the total direct costs by PU are \$30,122.
  - I. Indirect Costs - Per instructions of the FIPSE RFA, an 8% indirect charge is allowable. Calculated on the MTDC funds of \$10,922. (not Total Direct Costs) the funds requested in Year 3 are \$874. No indirect costs are calculated on the contractual costs of the reviewer or the Mobility and Language Stipends. Nor was any indirect costs calculated on these exempt items by us in the PU sub-award.
  - J. Student Mobility Stipends – In Year 3, PU requests \$16,000. for student mobility. They anticipate sending 4 students in Year 3. The student mobility amount requested is \$4,000. per student, or \$16,000. in Year 3.
  - K. Student Language Stipends – In Year 3 the language stipend is anticipated to be for 4 students from PU. The language training is calculated at \$800./student, or \$3,200. in Year 3.
  - L. Total Request from FIPSE - Total request (total direct costs + indirect costs + student mobility and language training) in Year 3 is \$30,996.
7. Other – No funds requested.
8. Total Direct Costs

Total direct costs are calculated as the sum of personnel, fringe benefits, travel, supplies, contractual (evaluator payment) and other expenses (conference fees) for UIUC. In Year 3, this total is \$73,761.

## UIUC Budget Narrative – Yr 3

### 9. Indirect Costs

Per instructions of the FIPSE RFA, an 8% indirect charge is allowable. Calculated on the Year 3 MTDC funds of \$21,965. (not Total Direct Costs) the funds requested are \$1,757. No indirect costs are calculated on the contractual costs of the reviewer or the Mobility and Language Stipends. Nor was any indirect costs calculated on these exempt items by us in the PU sub-award.

### 10. Student Mobility

In Year 3, the UIUC requests \$16,000. for student mobility. We anticipate sending 4 students from UIUC in Year 3. The student mobility amount requested is \$4,000. per student, or \$16,000. in Year 3.

### 11. Student Language Training

In Year 3 the language stipend is anticipated to be for 4 students from UIUC. The language training is calculated at \$1,200./student, or \$4,800. in Year 3.

### 12. Total Request from FIPSE

Total request (total direct costs + indirect costs + student mobility and language training) in Year 3 is \$75,518.

## UIUC Budget Narrative – Yr 4

FUNDS REQUESTED FROM FIPSE –see attached spreadsheet

The lead institution, University of Illinois at Urbana-Champaign (UIUC) budget breakdown is as follows:

### 1. Personnel

Partial salary support for faculty, equivalent to approximately 1 person-month per year, is requested (based on 9-month appointment). This support will be used to partially offset the faculty effort on the project, equating to about one week per co-PI per annum. Annual increases of 2% from Year 3 are assumed. Total Year 4 salary funds requested are \$5,722.

### 2. Fringe benefits

Per UIUC guidelines, the fringe benefit rate is computed as 33.06% of faculty salary which for UIUC equals \$1,892. Total Year 4 fringe benefit funds requested are \$1,892.

### 3. Travel

Funds are requested for two UIUC faculty to travel to the annual Project Director's meetings in Brazil in Year 4. Additional funds are requested for faculty at UIUC to travel to Brazil partner institutions and industry collaborators. These trips will allow our Consortium to participate in curriculum development, to continue to develop institutional frameworks for the collaboration, and to collaborate with Brazilian colleagues. A total of \$5,108. in Year 4 is requested, with \$1,108. for domestic and \$4,000. for foreign travel in the UIUC budget.

### 4. Equipment – No funds are requested.

### 5. Supplies – No funds are requested.

### 6. Contractual

In Year 4, \$2,500 per year is allocated for an agency required external evaluation of our program. This project's evaluation will be done by Prof. Conrad Heatwole of Virginia Tech University.

### Sub-award – see attached spreadsheet – PU Sub-award

- A. Salaries - Partial salary support for faculty, equivalent to approximately 1 person-month per year, is requested (based on 9-month appointment). This support will be used to partially offset the faculty effort on the project. Annual increases of 2% from Year 3 are assumed. Total Year 4 salary funds requested are \$5,124.

## UIUC Budget Narrative – Yr 4

- B. Benefits - Per PU guidelines, the fringe benefit rate is computed as 37.9% of faculty salary which for PU equals \$1,942. Total Year 4 fringe benefit funds requested are \$1,942.
  - C. Travel - In Year 4 funds are requested for PU faculty to travel to Brazil partner institutions and industry collaborators and to attend the Project Directors Meeting. These trips will allow our Consortium to participate in curriculum development, to continue to develop institutional frameworks for the collaboration, and to collaborate with Brazilian colleagues. A total of \$3,994. in Year 4 is requested for foreign travel in the sub-award travel budget.
  - D. Equipment – No funds are requested.
  - E. Supplies – No funds are requested.
  - F. Contractual – No funds are requested.
  - G. Other – No funds are requested.
  - H. Total Direct Costs – In Year 4 the total direct costs by PU are \$30,260.
  - I. Indirect Costs - Per instructions of the FIPSE RFA, an 8% indirect charge is allowable. Calculated on the MTDC funds of \$11,060. (not Total Direct Costs) the funds requested in Year 4 are \$885. No indirect costs are calculated on the contractual costs of the reviewer or the Mobility and Language Stipends. Nor was any indirect costs calculated on these exempt items by us in the PU sub-award.
  - J. Student Mobility Stipends – In Year 4, PU requests \$16,000. for student mobility. They anticipate sending 4 students in Year 4. The student mobility amount requested is \$4,000. per student, or \$16,000. in Year 4.
  - K. Student Language Stipends – In Year 4 the language stipend is anticipated to be for 4 students from PU. The language training is calculated at \$800./student, or \$3,200. in Year 4.
  - L. Total Request from FIPSE - Total request (total direct costs + indirect costs + student mobility and language training) in Year 4 is \$31,145.
7. Other – No funds requested.
8. Total Direct Costs

Total direct costs are calculated as the sum of personnel, fringe benefits, travel, supplies, contractual (evaluator payment) and other expenses (conference fees) for UIUC. In Year 4, this total is \$67,167.

## UIUC Budget Narrative – Yr 4

### 9. Indirect Costs

Per instructions of the FIPSE RFA, an 8% indirect charge is allowable. Calculated on the Year 4 MTDC funds of \$15,222. (not Total Direct Costs) the funds requested are \$1,218. No indirect costs are calculated on the contractual costs of the reviewer or the Mobility and Language Stipends. Nor was any indirect costs calculated on these exempt items by us in the PU sub-award.

### 10. Student Mobility

In Year 4, the UIUC requests \$16,000. for student mobility. We anticipate sending 4 students from UIUC in Year 4. The student mobility amount requested is \$4,000 per student, or \$16,000 in Year 4.

### 11. Student Language Training

In Year 4 the language stipend is anticipated to be for 4 students from UIUC. The language training is calculated at \$1,200/student, or \$4,800 in Year 4.

### 12. Total Request from FIPSE

Total request (total direct costs + indirect costs + student mobility and language training) in Year 4 is \$68,385.