

RESEARCH & RELATED BUDGET - SECTION A & B, BUDGET PERIOD 1

* ORGANIZATIONAL DUNS: 066469933
* Budget Type: ☒ Project ☐ Subaward/Consortium
Enter name of Organization: Emory University

* Start Date: 10-01-2012 * End Date: 09-30-2013 Budget Period: 1

A. Senior/Key Person												
Prefix	* First Name	Middle Name	* Last Name	Suffix	* Project Role	Base Salary (\$)	Cal. Months	Acad. Months	Sum. Months	* Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)
1.	Michele		Benzi		PD/PI	196,667.00		0	1	16,389.00	4,917.00	21,306.00
Total Funds Requested for all Senior Key Persons in the attached file												
Additional Senior Key Persons:			File Name:		Mime Type:		Total Senior/Key Person					21,306.00

B. Other Personnel												
* Number of Personnel		* Project Role	Cal.	Acad.	Sum.	* Requested	* Fringe	* Funds Requested				
			Months	Months	Months	Salary (\$)	Benefits	(\$)				
1	Post Doctoral Associates											
	Graduate Students		9			19,500.00	0.00			19,500.00		
	Undergraduate Students											
	Secretarial/Clerical											
1	Total Number Other Personnel					Total Other Personnel				19,500.00		
			Total Salary, Wages and Fringe Benefits (A+B)							40,806.00		

RESEARCH & RELATED Budget {A-B} (Funds Requested)

RESEARCH & RELATED BUDGET - SECTION C, D, & E, BUDGET PERIOD 1

* ORGANIZATIONAL DUNS: 066469933

* **Budget Type:** ☒ Project ☐ Subaward/Consortium

Enter name of Organization: Emory University

* **Start Date:** 10-01-2012

* **End Date:** 09-30-2013

Budget Period: 1

C. Equipment Description

List items and dollar amount for each item exceeding \$5,000

Equipment Item

* Funds Requested (\$)

Total funds requested for all equipment listed in the attached file

Total Equipment

Additional Equipment:

File Name:

Mime Type:

D. Travel

Funds Requested (\$)

1. Domestic Travel Costs (Incl. Canada, Mexico, and U.S. Possessions)

6,116.00

2. Foreign Travel Costs

Total Travel Cost

6,116.00

E. Participant/Trainee Support Costs

Funds Requested (\$)

1. Tuition/Fees/Health Insurance

2. Stipends

3. Travel

4. Subsistence

5. Other:

Number of Participants/Trainees

Total Participant/Trainee Support Costs

RESEARCH & RELATED Budget (C-E) (Funds Requested)

RESEARCH & RELATED BUDGET - SECTIONS F-K, BUDGET PERIOD 1

* ORGANIZATIONAL DUNS: 066469933

* **Budget Type:** ☒ Project ☐ Subaward/Consortium

Enter name of Organization: Emory University

* **Start Date:** 10-01-2012

* **End Date:** 09-30-2013

Budget Period: 1

F. Other Direct Costs	Funds Requested (\$)
1. Materials and Supplies	
2. Publication Costs	
3. Consultant Services	
4. ADP/Computer Services	
5. Subawards/Consortium/Contractual Costs	
6. Equipment or Facility Rental/User Fees	
7. Alterations and Renovations	
8. Graduate Student Enrollment Fee	2,813.00
Total Other Direct Costs	2,813.00

G. Direct Costs	Funds Requested (\$)
Total Direct Costs (A thru F)	49,735.00

H. Indirect Costs				
	Indirect Cost Type	Indirect Cost Rate (%)	Indirect Cost Base (\$)	* Funds Requested (\$)
1.	Research_On Campus	56	46,922.00	26,276.00
			Total Indirect Costs	26,276.00
Cognizant Federal Agency		DHHS, Steven Zuraf, (301) 492-4855		
(Agency Name, POC Name, and POC Phone Number)				

I. Total Direct and Indirect Costs	Funds Requested (\$)
Total Direct and Indirect Institutional Costs (G + H)	76,011.00

J. Fee	Funds Requested (\$)
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K. * Budget Justification	File Name:	Mime Type: application/pdf
	Rev_Budget_Justification1011366606.pdf	
	(Only attach one file.)	

RESEARCH & RELATED Budget {F-K} (Funds Requested)

RESEARCH & RELATED BUDGET - SECTION A & B, BUDGET PERIOD 2

* ORGANIZATIONAL DUNS: 066469933
* Budget Type: ☒ Project ☐ Subaward/Consortium
Enter name of Organization: Emory University

* Start Date: 10-01-2013 * End Date: 09-30-2014 Budget Period: 2

A. Senior/Key Person												
Prefix	* First Name	Middle Name	* Last Name	Suffix	* Project Role	Base Salary (\$)	Cal. Months	Acad. Months	Sum. Months	* Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)
1.	Michele		Benzi		PD/PI	202,567.00		0	1	16,881.00	5,064.00	21,945.00
Total Funds Requested for all Senior Key Persons in the attached file												
Additional Senior Key Persons:			File Name:		Mime Type:		Total Senior/Key Person				21,945.00	

B. Other Personnel												
* Number of Personnel		* Project Role	Cal.	Acad.	Sum.	* Requested	* Fringe	* Funds Requested				
			Months	Months	Months	Salary (\$)	Benefits	(\$)				
1	Post Doctoral Associates											
	Graduate Students		11			20,085.00	0.00				20,085.00	
	Undergraduate Students											
	Secretarial/Clerical											
1	Total Number Other Personnel					Total Other Personnel					20,085.00	
			Total Salary, Wages and Fringe Benefits (A+B)									42,030.00

RESEARCH & RELATED Budget {A-B} (Funds Requested)

RESEARCH & RELATED BUDGET - SECTION C, D, & E, BUDGET PERIOD 2

* ORGANIZATIONAL DUNS: 066469933

* **Budget Type:** ☒ Project ☐ Subaward/Consortium

Enter name of Organization: Emory University

* **Start Date:** 10-01-2013

* **End Date:** 09-30-2014

Budget Period: 2

C. Equipment Description

List items and dollar amount for each item exceeding \$5,000

Equipment Item

* Funds Requested (\$)

Total funds requested for all equipment listed in the attached file

Total Equipment

Additional Equipment:

File Name:

Mime Type:

D. Travel

Funds Requested (\$)

1. Domestic Travel Costs (Incl. Canada, Mexico, and U.S. Possessions)

6,353.00

2. Foreign Travel Costs

Total Travel Cost

6,353.00

E. Participant/Trainee Support Costs

Funds Requested (\$)

1. Tuition/Fees/Health Insurance

2. Stipends

3. Travel

4. Subsistence

5. Other:

Number of Participants/Trainees

Total Participant/Trainee Support Costs

RESEARCH & RELATED Budget (C-E) (Funds Requested)

RESEARCH & RELATED BUDGET - SECTIONS F-K, BUDGET PERIOD 2

* ORGANIZATIONAL DUNS: 066469933

* **Budget Type:** ☒ Project ☐ Subaward/Consortium

Enter name of Organization: Emory University

* **Start Date:** 10-01-2013

* **End Date:** 09-30-2014

Budget Period: 2

F. Other Direct Costs	Funds Requested (\$)
1. Materials and Supplies	
2. Publication Costs	
3. Consultant Services	
4. ADP/Computer Services	
5. Subawards/Consortium/Contractual Costs	
6. Equipment or Facility Rental/User Fees	
7. Alterations and Renovations	
8. Graduate Student Enrollment Fee	2,814.00
Total Other Direct Costs	2,814.00

G. Direct Costs	Funds Requested (\$)
Total Direct Costs (A thru F)	51,197.00

H. Indirect Costs				
	Indirect Cost Type	Indirect Cost Rate (%)	Indirect Cost Base (\$)	* Funds Requested (\$)
1.	Research_On Campus	56	48,383.00	27,094.00
			Total Indirect Costs	27,094.00
Cognizant Federal Agency		DHHS, Steven Zuraf, (301) 492-4855		
(Agency Name, POC Name, and POC Phone Number)				

I. Total Direct and Indirect Costs	Funds Requested (\$)
Total Direct and Indirect Institutional Costs (G + H)	78,291.00

J. Fee	Funds Requested (\$)
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K. * Budget Justification	File Name:	Mime Type: application/pdf
	Rev_Budget_Justification1011366606.pdf	
	(Only attach one file.)	

RESEARCH & RELATED Budget {F-K} (Funds Requested)

RESEARCH & RELATED BUDGET - SECTION A & B, BUDGET PERIOD 3

* ORGANIZATIONAL DUNS: 066469933
* Budget Type: ☒ Project ☐ Subaward/Consortium

Enter name of Organization: Emory University

* Start Date: 10-01-2014 * End Date: 09-30-2015 Budget Period: 3

A. Senior/Key Person												
Prefix	* First Name	Middle Name	* Last Name	Suffix	* Project Role	Base Salary (\$)	Cal. Months	Acad. Months	Sum. Months	* Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)
1.	Michele		Benzi		PD/PI	208,644.00		0	1	17,387.00	5,216.00	22,603.00
Total Funds Requested for all Senior Key Persons in the attached file												
Additional Senior Key Persons:			File Name:		Mime Type:		Total Senior/Key Person					22,603.00

B. Other Personnel												
* Number of Personnel		* Project Role	Cal.	Acad.	Sum.	* Requested	* Fringe	* Funds Requested				
			Months	Months	Months	Salary (\$)	Benefits	(\$)				
1	Post Doctoral Associates											
	Graduate Students		9			20,688.00	0.00				20,688.00	
	Undergraduate Students											
	Secretarial/Clerical											
1	Total Number Other Personnel					Total Other Personnel					20,688.00	
			Total Salary, Wages and Fringe Benefits (A+B)									43,291.00

RESEARCH & RELATED Budget {A-B} (Funds Requested)

RESEARCH & RELATED BUDGET - SECTION C, D, & E, BUDGET PERIOD 3

* ORGANIZATIONAL DUNS: 066469933

* **Budget Type:** ☒ Project ☐ Subaward/Consortium

Enter name of Organization: Emory University

* **Start Date:** 10-01-2014

* **End Date:** 09-30-2015

Budget Period: 3

C. Equipment Description

List items and dollar amount for each item exceeding \$5,000

Equipment Item

* Funds Requested (\$)

Total funds requested for all equipment listed in the attached file

Total Equipment

Additional Equipment:

File Name:

Mime Type:

D. Travel

Funds Requested (\$)

1. Domestic Travel Costs (Incl. Canada, Mexico, and U.S. Possessions)

6,598.00

2. Foreign Travel Costs

Total Travel Cost

6,598.00

E. Participant/Trainee Support Costs

Funds Requested (\$)

1. Tuition/Fees/Health Insurance

2. Stipends

3. Travel

4. Subsistence

5. Other:

Number of Participants/Trainees

Total Participant/Trainee Support Costs

RESEARCH & RELATED Budget (C-E) (Funds Requested)

RESEARCH & RELATED BUDGET - SECTIONS F-K, BUDGET PERIOD 3

* ORGANIZATIONAL DUNS: 066469933

* **Budget Type:** ☒ Project ☐ Subaward/Consortium

Enter name of Organization: Emory University

* **Start Date:** 10-01-2014

* **End Date:** 09-30-2015

Budget Period: 3

F. Other Direct Costs	Funds Requested (\$)
1. Materials and Supplies	
2. Publication Costs	
3. Consultant Services	
4. ADP/Computer Services	
5. Subawards/Consortium/Contractual Costs	
6. Equipment or Facility Rental/User Fees	
7. Alterations and Renovations	
8. Graduate Student Enrollment Fee	2,813.00
Total Other Direct Costs	2,813.00

G. Direct Costs	Funds Requested (\$)
Total Direct Costs (A thru F)	52,702.00

H. Indirect Costs				
	Indirect Cost Type	Indirect Cost Rate (%)	Indirect Cost Base (\$)	* Funds Requested (\$)
1.	Research_On Campus	56	49,889.00	27,938.00
			Total Indirect Costs	27,938.00
Cognizant Federal Agency		DHHS, Steven Zuraf, (301) 492-4855		
(Agency Name, POC Name, and POC Phone Number)				

I. Total Direct and Indirect Costs	Funds Requested (\$)
Total Direct and Indirect Institutional Costs (G + H)	80,640.00

J. Fee	Funds Requested (\$)
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K. * Budget Justification	File Name:	Mime Type: application/pdf
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RESEARCH & RELATED Budget {F-K} (Funds Requested)

RESEARCH & RELATED BUDGET - Cumulative Budget

	Totals (\$)	
Section A, Senior/Key Person		65,854.00
Section B, Other Personnel		60,273.00
Total Number Other Personnel	3	
Total Salary, Wages and Fringe Benefits (A+B)		126,127.00
Section C, Equipment		
Section D, Travel		19,067.00
1. Domestic	19,067.00	
2. Foreign		
Section E, Participant/Trainee Support Costs		
1. Tuition/Fees/Health Insurance		
2. Stipends		
3. Travel		
4. Subsistence		
5. Other		
6. Number of Participants/Trainees		
Section F, Other Direct Costs		8,440.00
1. Materials and Supplies		
2. Publication Costs		
3. Consultant Services		
4. ADP/Computer Services		
5. Subawards/Consortium/Contractual Costs		
6. Equipment or Facility Rental/User Fees		
7. Alterations and Renovations		
8. Other 1	8,440.00	
9. Other 2		
10. Other 3		
Section G, Direct Costs (A thru F)		153,634.00
Section H, Indirect Costs		81,308.00
Section I, Total Direct and Indirect Costs (G + H)		234,942.00
Section J, Fee		

Emory Justification

Salary

One month summer salary in each year of the project is requested to free the PI from teaching in order to conduct a significant portion of the proposed research. Fringe benefits for faculty members at Emory are currently 30% of salary. A 3% raise per year is projected.

The proposed research provides an excellent opportunity for a motivated Ph.D. student working on a dissertation in large-scale scientific computing on emerging architectures. The Ph.D. program in Computational Mathematics at Emory University has a strong history of attracting top graduate students, many of whom went on to successful careers in academia, government, and industry, including several females. Funds to support a full-time (academic year) Ph.D. student are requested for each of the three years of the project. Student salary is \$19,500 for the first year, with a 3% raise per year. Additionally, funds to cover the student's enrollment fees totaling \$2,813/year are being requested.

Travel

Travel support to attend meetings with the other project investigators plus one relevant conference per year, for a total of \$6,116 in year one, \$6,353 year two, and \$6,598 in year three is requested.