

**INTEGRATED OCEAN DRILLING PROGRAM  
United States Implementing Organization  
JOI Alliance**

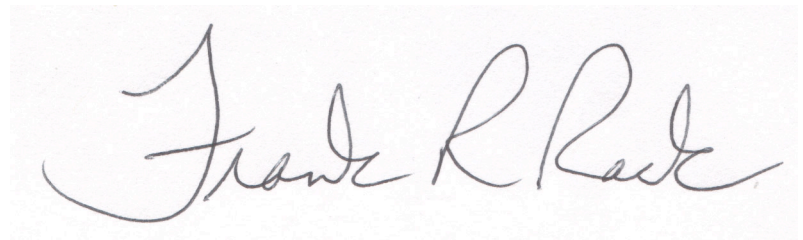
**Joint Oceanographic Institutions, Inc.  
Lamont-Doherty Earth Observatory of Columbia University  
Texas A&M University**

**PROGRAM PLAN APPENDIX  
FY06 to NSF**

For Time Period  
1 October 2005 to 30 September 2006

**AMOUNT PROPOSED FY06: \$9,010,439 (SIC)**

Respectfully Submitted to:  
National Science Foundation

A handwritten signature in black ink, reading "Frank R. Rack". The signature is written in a cursive style with a large, sweeping initial "F".

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Frank R. Rack for:  
Steven R. Bohlen  
President, Joint Oceanographic Institutions, Inc.  
Executive Director, Ocean Drilling Programs  
Joint Oceanographic Institutions, Inc.  
Washington DC 20005

20 July 2005







# USIO FY06 PROGRAM PLAN FOR IODP

This IODP-USIO FY06 SIC Program Plan Appendix outlines the U.S. Implementing Organization (USIO) scope of work for those Integrated Ocean Drilling Program (IODP) activities and deliverables for the current fiscal year that are specifically covered under the U.S. Systems Integration Contract (SIC) OCE-0352500 for demobilization (SIC-D) and nondemobilization (SIC-ND) activities.

This SIC Program Plan Appendix is written as a companion document to the “Integrated Ocean Drilling Program, United States Implementing Organization, JOI Alliance (Joint Oceanographic Institutions, Inc., Lamont-Doherty Earth Observatory of Columbia University, Texas A&M University) Program Plan FY06 to IODP-MI,” submitted on 19 April 2005 that contains requests for USIO Science Operation Cost (SOC) and Platform Operation Cost (POC) activities. It includes a discussion of the specific goals of the IODP-USIO related to SIC-supported activities as defined in guidance received from the National Science Foundation on 31 January 2005 and budget summary information. See the main Program Plan submitted to IODP-MI for detailed descriptions of FY06 expeditions and SOC- and POC-supported IODP-USIO activities for FY06.

Only those subjects and tasks specific to SIC-supported activities are addressed in this document.

## JOI ALLIANCE CONTRACTUAL RELATIONSHIPS

### JOI Alliance Prime Contractor

JOI is the prime contractor with ultimate responsibility for all contractual obligations entered into by the IODP-USIO. In addition to the responsibilities listed in the main Program Plan, JOI’s responsibilities specifically related to SIC activities will include the following:

- Oversee and assure the performance of management, administrative, financial and information systems that support the demobilization of the riserless drilling vessel (*JOIDES Resolution*).
- Exercise management and financial controls to ensure compliance with contract provisions and encourage creative, effective, and efficient delivery of non-program SIC-related tasks and services that will ensure the preservation of a U.S. scientific ocean drilling capability.
- Retain primary responsibility for representation of the U.S. SIC in IODP.
- Oversee the development of a new environmental impact study for the IODP-USIO scientific ocean drilling vessel and IODP-USIO riserless drilling operations.
- Coordinate and provide support for IODP-USIO education and outreach activities in cooperation with the U.S. Science Support Program (USSSP) and JOI Alliance partners.

### JOI Alliance Subcontractors

TAMU, through TAMRF, and LDEO serve as subcontractors to JOI and contribute distinct but complementary capabilities that, collectively, support the full range of activities necessary to support demobilization of the *JOIDES Resolution*, as well as other SIC activities for the period of 1 January 2006 through 30 September 2006 that are summarized below and presented in more detail in subsequent sections of this document.

For the JOI Alliance, IODP-USIO Science Services, Lamont-Doherty Earth Observatory (LDEO) of Columbia University, will provide services that are directly related to the logging activities necessary to support demobilization of the *JOIDES Resolution*, as well as the maintenance of LDEO’s Technical and

Engineering Services Department for the period of 1 January 2006 through 30 September 2006 and support of other SIC activities. Specifically, these service deliverables will include the following:

- Provision of ongoing management services, including subcontract supervision and panel liaisons.
- Support of staff and support and maintenance of technical facilities and equipment in preparation of IODP-USIO Phase 2 operations for the LDEO Technical Services Department for the period of 1 January 2006 to 30 September 2006.
- Demobilization of the *JOIDES Resolution*.
- Support of the maintenance and enhancement of downhole tools necessary to achieve the scientific goals of riserless drilling.
- Provision of support for third-party developers and proponents in the development of expedition-specific tools.
- Support a collaborative working relationship with IODP Management International, Inc. (IODP-MI), the Japanese and European implementing organizations (IOs), and the IODP science advisory panels.

For the JOI Alliance, IODP-USIO Science Services, Texas A&M University (TAMU), will provide services that are directly related to the scientific and engineering activities necessary to support demobilization of the *JOIDES Resolution*, as well as the maintenance of TAMU Science Operations Department's Technical Support, Operations, and Materials Support Sections and the TAMU Tools and Analytical Service's Department for the period of 1 January 2006 through 30 September 2006, and support for other SIC activities. Specifically, these service deliverables will include the following:

- Planning and implementation of demobilization of the *JOIDES Resolution* at the conclusion of IODP-USIO Phase 1 operations.
- Support of staff and support and maintenance of technical facilities and equipment in preparation of IODP-USIO Phase 2 operations for the TAMU Science Operations Department's Technical Support, Operations, and Material Support Sections and TAMU Tools and Analytical Services Department's Analytical and Engineering Services Sections for the period of 1 January 2006 to 30 September 2006.
- Materials and logistical support required for preparation of Phase 2 expedition implementation.
- Support of the maintenance and enhancement of analytical equipment and engineering tools necessary to achieve the scientific goals of riserless drilling.
- Support a collaborative working relationship with IODP-MI, the Japanese and European IOs, and the IODP science advisory panels.

In addition, the administrative services in support of TAMU activities will be managed by TAMRF, which will provide/manage all administrative services (contractual, fiscal, property/procurement, human resources assistance, and travel assistance) to support the demobilization activities conducted by TAMU.

## **IODP-USIO FY06 ACTIVITIES**

### **IODP-USIO Demobilization Activities**

A full demobilization of the *JOIDES Resolution* is anticipated to take place at the conclusion of Phase 1 seagoing operations from 9 through 31 January 2006. For a full summary of demobilization activities and associated costs see the "Demobilization Operations" section within this appendix.

## **IODP-USIO Maintenance Activities**

Following demobilization, the IODP-USIO will continue to provide for the upgrading and maintenance of equipment, preservation of program assets and essential services, and all other requirements to ensure the continuity of a state-of-the art U.S. scientific ocean drilling capability during the hiatus in field operations.

## **IODP-USIO BUDGET DEFINITIONS**

### **SIC Demobilization Costs vs. SIC Nondemobilization Costs**

As provided in the NSF guidance below, demobilization activities are to be charged to the U.S. SIC and for the purposes of this program plan are identified as SIC-D (SIC demobilization) costs. All other SIC costs that are not defined as SOC or POC costs are included in this IODP-USIO FY06 Program Plan Appendix as SIC-ND (SIC nondemobilization) costs according to the NSF guidance provided below.

### **NSF Guidance**

As called for in NSF Contract OCE-0352500, on 27 January 2005, an NSF memo was received by the IODP-USIO, which outlined the FY06 Mission Forecast for the JOI Alliance as the U.S. SIC for the IODP. This memo included the following:

“The IODP Science Planning and Policy Oversight Committee (SPOCC) has endorsed the following FY06 Science Plan drilling expeditions: finishing the drilling of Cascadia Margins Hydrates (IODP Proposal #553-Full2), Monterey Bay Observatory (IODP Proposal #621-Full), Superfast Spreading Crust 2 (IODP Proposal #522-Full3), followed by demobilization. The *JOIDES Resolution* is expected to be off contract by February 1, 2006, with its demobilization to occur in a U.S. port.

Please submit a FY06 SIC Program Plan that details the FY06 drilling and science operation activities required to implement these projects, recommended for drilling in FY06 by the IODP SAS, as defined from your responsibilities given in Contract OCE-0352500.

The FY06 SIC Program Plan shall include a budget and funding summary that identifies POC, SOC, and other SIC contractual items. Other activities and reporting requirements to be included in the Program Plan are identified in Contract OCE-0352500.

The budget target for Contract OCE-0352500 is \$19,500,000, exclusive of the SODV Conversion Project. This target represents a ceiling, subject to later review dependent upon budgeting of MREFC activities. This figure was derived from estimates of requirements for the following activities:

- 1) POC requirements of drilling and other SIC activities
- 2) Demobilization costs
- 3) Contractual costs for maintaining the TAMU Science Operations Department’s Technical Support, Operations, and Material Support Sections, the TAMU Tools and Analytical Services Department’s Analytical and Engineering Services Sections, and the LDEO Technical and Engineering Services Department for the period of January 1, 2006 to September 30, 2006. These costs are not to be considered POC or SOC costs.
- 4) Other SIC contractual costs not considered as SOCs or POCs, such as U.S.-oriented JOI Alliance platform-related Education and Outreach activities.

Following the guidance provided by NSF, the JOI Alliance budget request of \$18,792,764 can be partitioned into three programmatic categories: (1) IODP-USIO Phase 1 platform operations, which are

detailed as POCs in the budget submitted on 19 April 2005, (2) SIC-demobilization (SIC-D) costs for demobilization of the *JOIDES Resolution* at the conclusion of the Phase 1 expedition period, and (3) SIC-nondemobilization (SIC-ND) costs for maintaining a future U.S. capability for continued scientific ocean drilling in the IODP.”

The cost breakdown for FY06 is a request for \$9,782,325 in POC expenses, \$4,493,654 in SIC-D (SIC-demobilization) expenses, and \$4,516,785 in SIC-ND (SIC-nondemobilization) expenses.

## **FY06 IODP-USIO POC AND SIC WBE BUDGET SUMMARY**

<b>Element</b>	<b>JOI</b>	<b>LDEO</b>	<b>TAMU</b>	<b>Total</b>
Total POC Costs	564,184	521,357	8,696,784	9,782,325
Total SIC Demobilization Costs	0	108,905	4,384,749	4,493,654
Total SIC Nondemobilization Costs	690,787	470,236	3,355,762	4,516,785
<b>GRAND TOTAL</b>	<b>1,254,971</b>	<b>1,100,498</b>	<b>16,437,295</b>	<b>18,792,764</b>

In the following IODP-USIO budget summary tables, the line item total requested for each work breakdown element (WBE) is defined as the total of both the direct and indirect costs for that element. These costs are separated out for each JOI Alliance institution in the summary totals that add to the “grand total” for each institution. JOI and LDEO calculate indirect costs on a percentage of the direct costs using formulas described in those institution’s sections of this program plan. The TAMU/TAMRF budget is structured with a single administrative fee that can be found in the Management and Administration element budget for the SOC and POC budget requests. The “grand totals” for direct, indirect, and total costs for each institution and the entire IODP-USIO are shown for the POC, SIC-D and SIC-ND budget requests, respectively. The budget summary tables provide an integrated view of all of the budget requests detailed in the other sections of this program plan. The detailed budget justification for these requests can be found in each appropriate section of the IODP-USIO FY06 Program Plan Appendix.



# FY06 IODP-USIO POC WBE BUDGET SUMMARY

Element	JOI	LDEO	TAMU	Total
Management and Administration	564,184	76,758	444,868	1,085,810
Technical, Engineering, and Science Support	0	41,913	8,251,916	8,293,829
<b>Subtotal Technical, Engineering, and Science Support</b>	<b>0</b>	<b>41,913</b>	<b>8,251,916</b>	<b>8,293,829</b>
<b>Subtotal Engineering Development</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Core Curation	0	0	0	0
<b>Subtotal Core Curation</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Subtotal DSDP/ODP Core Redistribution</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Data Management	0	0	0	0
Publications	0	0	0	0
Logging	0	402,686	0	402,686
Education and Outreach	0	0	0	0
<b>Grant Total IODP-USIO POC WBE</b>	<b>564,184</b>	<b>521,357</b>	<b>8,696,784</b>	<b>9,782,325</b>

Notes: JOI Indirect Costs are included in the Management and Administration (M&A) and Education and Outreach (E&O) elements. LDEO Indirect Costs are included in the M&A; Technical, Engineering, and Science Support; Data Management; and Logging elements. TAMU Administrative Fee is included in the M&A element.

Element	JOI	LDEO	TAMU	Total
<b>Total Direct Costs</b>	<b>418,894</b>	<b>480,721</b>	<b>8,563,273</b>	<b>9,462,888</b>
<b>Indirect Costs and Administrative Fees</b>	<b>145,290</b>	<b>40,636</b>	<b>133,511</b>	<b>319,437</b>
<b>Grand Total</b>	<b>564,184</b>	<b>521,357</b>	<b>8,696,784</b>	<b>9,782,325</b>

## FY06 IODP-USIO SIC DEMOBILIZATION WBE BUDGET SUMMARY

Element	JOI	LDEO	TAMU	Total
Management and Administration	0	0	182,738	182,738
Technical, Engineering, and Science Support	0	0	4,170,248	4,170,248
<b>Subtotal Technical, Engineering, and Science Support</b>	0	0	4,170,248	4,170,248
<b>Subtotal Engineering Development</b>	0	0	0	0
Core Curation	0	0	11,083	11,083
<b>Subtotal Core Curation</b>	0	0	0	0
<b>Subtotal DSDP/ODP Core Redistribution</b>	0	0	0	0
Data Management	0	0	15,477	15,477
Publications	0	0	5,203	5,203
Logging	0	108,905	0	108,905
Education and Outreach	0	0	0	0
<b>Grand Total</b>	<b>0</b>	<b>108,905</b>	<b>4,384,749</b>	<b>4,493,654</b>

Notes: JOI Indirect Costs are included in the Management and Administration (M&A) and Education and Outreach (E&O) elements. LDEO Indirect Costs are included in the M&A; Technical, Engineering, and Science Support; Data Management; and Logging elements. TAMU Administrative Fee is included in the M&A element for the SOC and POC budget requests.

Element	JOI	LDEO	TAMU	Total
<b>Total Direct Costs</b>	0	95,125	4,384,749	4,479,874
<b>Indirect Costs and Administrative Fees</b>	0	13,780	0	13,780
<b>Grand Total</b>	<b>0</b>	<b>108,905</b>	<b>4,384,749</b>	<b>4,493,654</b>

## FY06 IODP-USIO SIC NONDEMOBILIZATION WBE BUDGET SUMMARY

Element	JOI	LDEO	TAMU	Total
Management and Administration	533,600	200,958	0	734,558
Technical, Engineering, and Science Support	0	269,278	3,355,762	3,625,040
<b>Subtotal Technical, Engineering, and Science Support</b>	0	269,278	3,355,762	3,625,040
<b>Subtotal Engineering Development</b>	0	0	0	0
Core Curation	0	0	0	0
<b>Subtotal Core Curation</b>	0	0	0	0
<b>Subtotal DSDP/ODP Core Redistribution</b>	0	0	0	0
Data Management	0	0	0	0
Publications	0	0	0	0
Logging	0	0	0	0
Education and Outreach	157,187	0	0	157,187
<b>Grand Total</b>	<b>690,787</b>	<b>470,236</b>	<b>3,355,762</b>	<b>4,516,785</b>

Notes: JOI Indirect Costs are included in the Management and Administration (M&A) and Education and Outreach (E&O) elements. LDEO Indirect Costs are included in the M&A; Technical, Engineering, and Science Support; Data Management; and Logging elements. TAMU Administrative Fee is included in the M&A element for the SOC and POC budget requests.

Element	JOI	LDEO	TAMU	Total
<b>Total Direct Costs</b>	517,802	309,595	3,355,762	4,183,159
<b>Indirect Costs and Administrative Fees</b>	172,985	160,641	0	333,626
<b>Grand Total</b>	<b>690,787</b>	<b>470,236</b>	<b>3,355,762</b>	<b>4,516,785</b>

# FY06 IODP-USIO SIC DEMOBILIZATION WBE BUDGET DETAIL

Element/Expense Category	JOI	LDEO	TAMU	Total
<b>Management and Administration</b>				
Salaries and Fringes	0	0	167,708	167,708
Travel	0	0	12,160	12,160
Supplies	0	0	2,095	2,095
Shipping	0	0	0	0
Communication	0	0	275	275
Contractual Services	0	0	0	0
Equipment	0	0	0	0
Other Direct Costs	0	0	500	500
<b>Total Direct Costs</b>	<b>0</b>	<b>0</b>	<b>182,738</b>	<b>182,738</b>
Indirect Costs or Administrative Fees	0	0	0	0
<b>Total Management and Administration</b>	<b>0</b>	<b>0</b>	<b>182,738</b>	<b>182,738</b>
<b>Technical, Engineering, and Science Support</b>				
Salaries and Fringes	0	0	785,434	785,434
Travel	0	0	122,125	122,125
Supplies	0	0	104,185	104,185
Shipping	0	0	65,858	65,858
Communication	0	0	27,961	27,961
Contractual Services	0	0	0	0
Equipment	0	0	10,000	10,000
Other Direct Costs	0	0	3,054,685	3,054,685
Day Rate	0	0	2,291,871	2,291,871
Fuel and Lubricants	0	0	295,100	295,100
Per Diem	0	0	25,263	25,263
Port Calls	0	0	35,000	35,000
Insurance	0	0	61,488	61,488
Other	0	0	345,963	345,963
<b>Subtotal Technical, Engineering, and Science Support</b>	<b>0</b>	<b>0</b>	<b>4,170,248</b>	<b>4,170,248</b>
<b>Subtotal Engineering Development</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Direct Costs</b>	<b>0</b>	<b>0</b>	<b>4,170,248</b>	<b>4,170,248</b>
Indirect Costs or Administrative Fees	0	0	0	0
<b>Total Technical, Engineering, and Science Support</b>	<b>0</b>	<b>0</b>	<b>4,170,248</b>	<b>4,170,248</b>
<b>Core Curation</b>				
Salaries and Fringes	0	0	9,531	9,531
Travel	0	0	1,552	1,552
Supplies	0	0	0	0
Shipping	0	0	0	0
Communication	0	0	0	0
Contractual Services	0	0	0	0
Equipment	0	0	0	0
Other Direct Costs	0	0	0	0
<b>Subtotal Core Curation</b>	<b>0</b>	<b>0</b>	<b>11,083</b>	<b>11,083</b>
<b>Subtotal DSDP/ODP Core Redistribution</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Direct Costs</b>	<b>0</b>	<b>0</b>	<b>11,083</b>	<b>11,083</b>
Indirect Costs	0	0	0	0
<b>Total Core Curation</b>	<b>0</b>	<b>0</b>	<b>11,083</b>	<b>11,083</b>

Note: Other Direct Costs subcategories are shown on the detailed Work Breakdown Element budgets. (Continued on next two pages.)

# FY06 IODP-USIO SIC DEMOBILIZATION WBE BUDGET DETAIL (CONTINUED)

Element/Expense Category	JOI	LDEO	TAMU	Total
<b>Data Management</b>				
Salaries and Fringes	0	0	7,695	7,695
Travel	0	0	7,782	7,782
Supplies	0	0	0	0
Shipping	0	0	0	0
Communication	0	0	0	0
Contractual Services	0	0	0	0
Equipment	0	0	0	0
Other Direct Costs	0	0	0	0
Total Direct Costs	0	0	15,477	15,477
Indirect Costs	0	0	0	0
<b>Total Data Management</b>	<b>0</b>	<b>0</b>	<b>15,477</b>	<b>15,477</b>
<b>Publications</b>				
Salaries and Fringes	0	0	4,978	4,978
Travel	0	0	225	225
Supplies	0	0	0	0
Shipping	0	0	0	0
Communication	0	0	0	0
Contractual Services	0	0	0	0
Equipment	0	0	0	0
Other Direct Costs	0	0	0	0
Total Direct Costs	0	0	5,203	5,203
Indirect Costs	0	0	0	0
<b>Total Publications</b>	<b>0</b>	<b>0</b>	<b>5,203</b>	<b>5,203</b>
<b>Logging</b>				
Salaries and Fringes	0	0	0	0
Travel	0	12,000	0	12,000
Supplies	0	3,500	0	3,500
Shipping	0	10,000	0	10,000
Communication	0	500	0	500
Contractual Services	0	69,125	0	69,125
Equipment	0	0	0	0
Other Direct Costs	0	0	0	0
Total Direct Costs	0	95,125	0	95,125
Indirect Costs	0	13,780	0	13,780
<b>Total Logging</b>	<b>0</b>	<b>108,905</b>	<b>0</b>	<b>108,905</b>

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# FY06 IODP-USIO SIC DEMOBILIZATION WBE BUDGET DETAIL (CONTINUED)

Element/Expense Category	JOI	LDEO	TAMU	Total
<b>Education and Outreach</b>				
Salaries and Fringes	0	0	0	0
Travel	0	0	0	0
Supplies	0	0	0	0
Shipping	0	0	0	0
Communication	0	0	0	0
Contractual Services	0	0	0	0
Equipment	0	0	0	0
Other Direct Cost	0	0	0	0
Total Direct Costs	0	0	0	0
Indirect Costs	0	0	0	0
<b>Total Education and Outreach</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Grand Total Direct Costs</b>	0	95,125	4,384,749	4,479,874
<b>Grand Total Indirect Costs and Administrative Fees</b>	0	13,780	0	13,780
<b>Grand Total IODP-USIO SIC-Demobilization WBE</b>	<b>0</b>	<b>108,905</b>	<b>4,384,749</b>	<b>4,493,654</b>

# FY06 IODP-USIO SIC NONDEMobilization WBE Budget Detail

Element/Expense Category	JOI	LDEO	TAMU	Total
<b>Management and Administration</b>				
Salaries and Fringes	0	124,446	0	124,446
Travel	37,000	4,734	0	41,734
Supplies	0	965	0	965
Shipping	0	454	0	454
Communication	83,000	489	0	83,489
Contractual Services	250,000	0	0	250,000
Equipment	25,000	0	0	25,000
Other Direct Costs	0	257	0	257
Total Direct Costs	395,000	131,345	0	526,345
Indirect Costs or Administrative Fees	138,600	69,613		208,213
<b>Total Management and Administration</b>	<b>533,600</b>	<b>200,958</b>	<b>0</b>	<b>734,558</b>
<b>Technical, Engineering, and Science Support</b>				
Salaries and Fringes	0	163,772	1,573,710	1,737,482
Travel	0	2,399	148,639	151,038
Supplies	0	3,373	377,433	380,806
Shipping	0	514	4,858	5,372
Communication	0	1,029	13,403	14,432
Contractual Services	0	0	0	0
Equipment	0	6,500	512,963	519,463
Other Direct Costs	0	663	724,756	725,419
Day Rate	0	0	0	0
Fuel and Lubricants	0	0	0	0
Per Diem	0	0	0	0
Port Calls	0	0	0	0
Insurance	0	0	0	0
Other	0	663	724,756	725,419
<b>Subtotal Technical, Engineering, and Science Support</b>	<b>0</b>	<b>178,250</b>	<b>3,355,762</b>	<b>3,534,012</b>
<b>Subtotal Engineering Development</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Total Direct Costs	0	178,250	3,355,762	3,534,012
Indirect Costs or Administrative Fees	0	91,028	0	91,028
<b>Total Technical, Engineering, and Science Support</b>	<b>0</b>	<b>269,278</b>	<b>3,355,762</b>	<b>3,625,040</b>
<b>Core Curation</b>				
Salaries and Fringes	0	0	0	0
Travel	0	0	0	0
Supplies	0	0	0	0
Shipping	0	0	0	0
Communication	0	0	0	0
Contractual Services	0	0	0	0
Equipment	0	0	0	0
Other Direct Costs	0	0	0	0
<b>Subtotal Core Curation</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Subtotal DSDP/ODP Core Redistribution</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Total Direct Costs	0	0	0	0
Indirect Costs	0	0	0	0
<b>Total Core Curation</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Note: Other Direct Costs subcategories are shown on the detailed Work Breakdown Element budgets. (Continued on next two pages.)

# FY06 IODP-USIO SIC NONDEMOBILIZATION WBE BUDGET DETAIL (CONTINUED)

Element/Expense Category	JOI	LDEO	TAMU	Total
<b>Data Management</b>				
Salaries and Fringes	0	0	0	0
Travel	0	0	0	0
Supplies	0	0	0	0
Shipping	0	0	0	0
Communication	0	0	0	0
Contractual Services	0	0	0	0
Equipment	0	0	0	0
Other Direct Costs	0	0	0	0
Total Direct Costs	0	0	0	0
Indirect Costs	0	0	0	0
<b>Total Data Management</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Publications</b>				
Salaries and Fringes	0	0	0	0
Travel	0	0	0	0
Supplies	0	0	0	0
Shipping	0	0	0	0
Communication	0	0	0	0
Contractual Services	0	0	0	0
Equipment	0	0	0	0
Other Direct Costs	0	0	0	0
Total Direct Costs	0	0	0	0
Indirect Costs	0	0	0	0
<b>Total Publications</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Logging</b>				
Salaries and Fringes	0	0	0	0
Travel	0	0	0	0
Supplies	0	0	0	0
Shipping	0	0	0	0
Communication	0	0	0	0
Contractual Services	0	0	0	0
Equipment	0	0	0	0
Other Direct Costs	0	0	0	0
Total Direct Costs	0	0	0	0
Indirect Costs	0	0	0	0
<b>Total Logging</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

(Continued on next page.)

**FY06 IODP-USIO SIC NONDEMOBILIZATION WBE BUDGET  
DETAIL (CONTINUED)**

<b>Element/Expense Category</b>	<b>JOI</b>	<b>LDEO</b>	<b>TAMU</b>	<b>Total</b>
<b>Education and Outreach</b>				
Salaries and Fringes	0	0	0	0
Travel	77,582	0	0	77,582
Supplies	3,500	0	0	3,500
Shipping	0	0	0	0
Communication	0	0	0	0
Contractual Services	35,720	0	0	35,720
Equipment	6,000	0	0	6,000
Other Direct Cost	0	0	0	0
<b>Total Direct Costs</b>	<b>122,802</b>	<b>0</b>	<b>0</b>	<b>122,802</b>
Indirect Costs	34,385	0	0	34,385
<b>Total Education and Outreach</b>	<b>157,187</b>	<b>0</b>	<b>0</b>	<b>157,187</b>
<b>Grand Total Direct Costs</b>	<b>517,802</b>	<b>309,595</b>	<b>3,355,762</b>	<b>4,183,159</b>
<b>Grand Total Indirect Costs and Administrative Fees</b>	<b>172,985</b>	<b>160,641</b>	<b>0</b>	<b>333,626</b>
<b>Grand Total IODP-USIO SIC-Nondemobilization WBE</b>	<b>690,787</b>	<b>470,236</b>	<b>3,355,762</b>	<b>4,516,785</b>



# DEMOBILIZATION OPERATIONS

A full demobilization of the *JOIDES Resolution* is anticipated to take place from 6 through 31 January 2006. The vessel is scheduled to arrive at a demobilization port, currently anticipated to be Galveston, Texas, on 4 January 2006. The initial day (5 January 2006) is a port call day, with the official start of demobilization beginning at 0600 the day after completion of the transit from Balboa, Panama, and arrival at the demobilization site.

IODP-USIO Science Services Operator, TAMU, has established a demobilization team representing all elements of LDEO, TAMU, and TAMRF. Planning will begin at the initiation of FY06 and preparatory work related to demobilization will take place prior to the actual initiation of demobilization in Galveston. Demobilization personnel will board the vessel at Balboa. Supplies and equipment necessary for inventory, packaging, and preparation for off-load and transportation to the appropriate storage/refurbishment location will also be loaded in Balboa. During the transit from Balboa to Galveston, the onboard demobilization team will begin to inventory, package for removal from the vessel, and/or prepare for storage all property and supplies. IODP-USIO and Overseas Drilling Limited (ODL) personnel will work two 12-hour shifts daily during the transit. A demobilization coordinating team will be located in Galveston prior to the arrival of the vessel to facilitate coordination with port officials, port agents, vessel representatives, vendors, and transportation assets and to control the demobilization effort. This coordination team will remain at the demobilization site until all activities are completed and the vessel owner has been contractually notified that Phase 1 and demobilization activities have been concluded.

The shipboard phase of demobilization is scheduled for completion prior to midnight on 31 January 2006. IODP-USIO and ODL personnel will work two 12-hour shifts daily after the ship arrives in Galveston. Decisions on the size of, or reduction in, working effort and personnel at the demobilization site will be made by the onsite IODP-USIO Demobilization Coordinator based on an assessment of time available, work to be completed, and the requirement to conclude shipboard activity and notify the vessel owner prior to midnight on 31 January 2006 that the TAMRF/ODL subcontract is terminated. Regardless of when the completion notification is provided, up to six months after demobilization has been contractually agreed to for receipt of final invoices from the vessel operator.

Full demobilization means that

- All the drill pipe and associated components will be removed from the vessel and sent to a local facility for refurbishing/repair and/or storage in College Station, Texas. Based on the economics of the situation, drill pipe and associated drilling components may be returned to College Station prior to the commencement of refurbishment/repair.
- All logging equipment will be removed from the vessel and either returned to Schlumberger or sent to LDEO for refurbishing/repair and/or storage in Palisades, New York.
- All science and computer equipment will be removed from the laboratories and science/logging operator spaces and sent to the appropriate location for storage, refurbishment, repair, or disposal.
- Property and supplies that have no further value to IODP-USIO and that can be removed and disposed of in Galveston will be disposed of in place.

- Items listed on the TAMRF/ODL contract as the property of the vessel owner at the conclusion of Phase 1 operations will be identified and transferred to ODL.

Drill pipe and associated drilling accessories will be off-loaded to an outside storage area, to be subsequently loaded on trucks for transport either to a local repair/refurbishment facility or transport to a College Station storage area. Science equipment and supplies not disposed of in place will be initially placed in covered storage by department responsibility. As sufficient items are prepared for transport, they will be assembled in flat or covered vehicle loads and sent to College Station.

No public tours or media events are planned in Galveston, but if arranged in advance, they may be accommodated on a not-to-interfere basis, realizing that the vessel condition will be dramatically altered from its operational state. Some work spaces and laboratories may not be accessible due to the ongoing demobilization effort.

# IODP-USIO SIC DEMOBILIZATION BUDGET SUMMARY

Expense Category	SIC-D
<b>IODP-USIO Science Services, LDEO:</b>	
Salaries and Fringes	0
Travel	12,000
Supplies	3,500
Shipping	10,000
Communication	500
Contractual Services	69,125
Equipment	0
Other Direct Costs	0
Total Direct Costs	95,125
Modified Total Direct Costs	26,000
Indirect Costs	13,780
<b>Subtotal IODP-USIO Science Services, LDEO</b>	<b>108,905</b>
<b>IODP-USIO Science Services, TAMU/TAMRF:</b>	
Salaries and Fringes	975,346
Travel	143,844
Supplies	106,280
Shipping	65,858
Communication	28,236
Contractual Services	0
Equipment	10,000
Other Direct Costs	3,055,185
Day Rates	2,291,871
Fuel	295,100
Per Diem	25,263
Port Calls	35,000
Insurance	61,488
Other	346,463
Business Conferences	700
Services	207,100
Equipment Rental	10,000
Other Expense ODL	127,400
Maintenance and Repair	858
Library	405
Administrative Fee	0
<b>Subtotal IODP-USIO Science Services, TAMU/TAMRF</b>	<b>4,384,749</b>
<b>Demob Grand Total</b>	<b>4,493,654</b>

# GLOSSARY OF EXPENSE CATEGORIES—SIC DEMOBILIZATION

## IODP-USIO Science Services, LDEO, Costs

**Travel**—Travel to the *JOIDES Resolution* for IODP-USIO Science Services, LDEO personnel.

**Supplies**—Tools (i.e., cable and material removal equipment), packing and shipping materials, and a leased sea-freight container.

**Shipping**—Freight, postage, and express mail service costs. These costs primarily cover shipment of freight (equipment and materials) to be returned to IODP-USIO Science Services, LDEO.

**Communication**—Telephone and fax costs.

**Contractual Services**—Subcontract to Schlumberger for demobilization expenses. Includes costs associated with the return of logging equipment, hazardous materials, winch, and the Schlumberger Minimum Configuration Maxis (MCM) unit to Schlumberger. In addition, funds are budgeted for additional technical personnel not included in the base budget.

**Indirect Costs**—Indirect costs at 53% are assessed on all charges except permanent equipment, tuition remission, and downhole tool insurance. In addition, subcontracts are charged indirect costs on the first \$25,000 of each contract. The indirect cost for all of the existing subcontracts was included in the FY04 Program Plan, so these subcontracts are not subject to indirect cost during FY06. Modified total direct costs (MTDC) are the total direct costs minus these exceptions.

## IODP-USIO Science Services, TAMU/TAMRF, Costs

**Salaries and Fringes**—Salary, fringe, and sea pay directly associated with demobilization, along with pro rata amounts of the same items for employee efforts in support of demobilization activities.

**Travel**—Transportation, per diem, and lodging in support of demobilization activities (e.g., travel to and from the ship all demobilization personnel and other Program employees attending demobilization).

**Supplies**—Supplies associated with demobilization tasks.

**Shipping**—The majority of costs contained in this category are demobilization-specific costs and involve shipment of equipment and supplies to and from the ship.

**Communication**—Satellite and regular communications charges between the *JOIDES Resolution* and shore-based personnel. Shore-based cost incurred in support of demobilization activities.

**Equipment**—Costs associated directly with equipment (computer) specifically intended for use during demobilization.

### **Other Direct Costs:**

**Day Rates**—Cost of staffing the ship, including the sailing crew and drilling personnel. It does not cover the cost of the IODP-USIO Science Services, TAMU personnel or the scientists on board the ship. The day rate varies according to the mode of the ship, which is generally operating, standing by, or cruising. Although it is a fixed rate per day, the day rate is adjusted for changes in the Consumer Price Index-Urban (CPI-U) and Employment Cost Index (ECI). When the cumulative change in the CPI-U and ECI (since the last increase) equals or exceeds 2%, the day rates will be adjusted by the percentage change. The adjustment takes effect at the beginning of the month following the increase and cannot occur more frequently than every 6 months.

*Fuel and Lubricants*—Refuelings at an average cost per metric ton and associated costs.

*Per Diem*—Catering charges for 25 personnel per month based on the most recent averages of shipboard participants. This category does not include ODL, SOS (roughnecks and roustabouts) or Catermar personnel, as they are accounted for in the day rate.

*Port Calls*—None budgeted.

*Insurance (Ship Operations–General Support)*—Coverage outlined in Appendix I (e.g., IODP-USIO Science Services, TAMRF, Program Insurance) of the “Integrated Ocean Drilling Program, United States Implementing Organization, JOI Alliance (Joint Oceanographic Institutions, Inc., Lamont-Doherty Earth Observatory of Columbia University, Texas A&M University) Program Plan FY06 to IODP-MI,” submitted on 19 April 2005.

*Other:*

*Business Conferences*—Incidental expenses associated with meetings hosted by IODP-USIO Science Services, TAMU.

*Services*—Expert assistance. Costs associated with drill pipe maintenance, shipboard maintenance service calls, transfer fees, disposal of chemicals, storage fees, and miscellaneous charges payable to the ship’s subcontractor.

*Equipment Rental*—Rental of equipment when it is more economical to rent than purchase.

*Other Expenses–ODL*—Miscellaneous reimbursable expenditures incurred by ODL for costs other than the primary cost categories of Per Diem, Fuel and Lubricants, Day Rates, and Port Calls.

*Maintenance and Repair*—Funds for repairing drilling, coring, operations, and laboratory equipment for the ship.

*Library*—Funds for books, journals, and other scientific resources.

*Administrative Fee*—None budgeted.

**INTEGRATED OCEAN DRILLING PROGRAM  
United States Implementing Organization  
Systems Integration Contractor**

**Joint Oceanographic Institutions, Inc.**

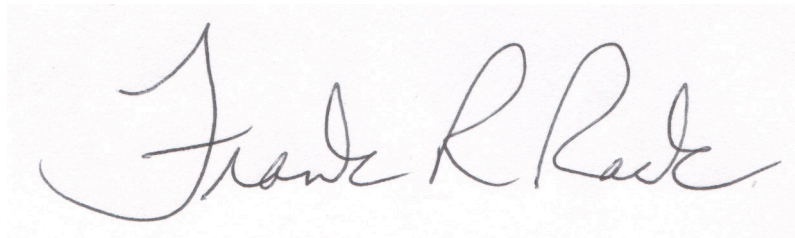
**PROGRAM PLAN APPENDIX  
FY06 to NSF**

For Time Period

1 October 2005 to 30 September 2006

**AMOUNT PROPOSED FY06: \$690,787 (SIC)**

Respectfully Submitted to:  
National Science Foundation

A handwritten signature in cursive script, reading "Frank R. Rack". The signature is written in dark ink on a light-colored background.

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Frank R. Rack for:  
Steven R. Bohlen  
President, Joint Oceanographic Institutions, Inc.  
Executive Director, Ocean Drilling Programs  
Joint Oceanographic Institutions, Inc.  
Washington DC 20005

20 July 2005



# INTRODUCTION

The key elements of the Joint Oceanographic Institutions, Inc., (JOI) responsibilities specific to this appendix include the following:

- Oversee and assure the performance of management, administrative, financial, and information systems that support the demobilization of the riserless drilling vessel (*JOIDES Resolution*).
- Exercise management and financial controls to ensure compliance with contract provisions and encourage creative, effective, and efficient delivery of non-program U.S. Systems Integration Contract (SIC)-related tasks and services that will ensure the preservation of a U.S. scientific ocean drilling capability.
- Retain primary responsibility for representation of the U.S. Systems Integration Contract (SIC) in the Integrated Ocean Drilling Program (IODP).
- Oversee the development of a new environmental impact study for the IODP-U.S. Implementing Organization (USIO) scientific ocean drilling vessel and IODP-USIO riserless drilling operations.
- Coordinate and provide support for IODP-USIO education and outreach activities in cooperation with the U.S. Science Support Program (USSSP) and JOI Alliance partners.

## GENERAL OPERATIONS

Specifically, JOI will

- Initiate efforts to define the scope of the IODP-USIO Phase 2 Environmental Impact Statement and develop a draft of this document for review by NSF and other responsible parties.
- Lead, coordinate, and manage all activities of the IODP-USIO during the hiatus in drilling.
- Facilitate the implementation of education and outreach activities together with USSSP.

The JOI positions and percent effort that support the SIC tasks are outlined as follows:

- All JOI staff salaries and fringe benefits in FY06 are assigned to either Science Operation Cost (SOC) or Platform Operation Cost (POC) categories. Only the direct and indirect costs of SIC activities other than salary and fringe benefits are included in the JOI budget.



## Joint Oceanographic Institutions Positions and Percent Effort

Employee	Position	WBE Element	% Effort SIC-D	% Effort SIC-ND
Steve Bohlen	President	M&A	0%	0%
Amy Castner	Executive Program Associate	M&A	0%	0%
Stuart Williams	Director, SODV Conversion (1)	(1)	0%	0%
TBN	Manager, MREFC (1)	(1)	0%	0%
Kelly Kryc	Assistant Director, Ocean Drilling Programs (1)	(1), M&A	0%	0%
TBN	SODV Intern (1)	(1)	0%	0%
Frank Rack	Director, Ocean Drilling Programs	M&A	0%	0%
Margo Cortes	Senior Program Associate	M&A	0%	0%
TBN	Associate Director, Ocean Drilling Programs	M&A	0%	0%
TBN	Technical Program Assistant	M&A	0%	0%
Susan Boa	Director of Communications and Development	M&A	0%	0%
John Corsiglia	Communications Associate	M&A	0%	0%
Leslie Peart	Director of Education (2)	E&O	0%	0%
Matthew Niemitz	Program Assistant (2)	SOC=E&O; POC=M&A	0%	0%
Robert Wright	IT Manager (3)	G&A	0%	0%
Carol Kokinda	Director of Operations (3)	G&A	0%	0%
Eldon Hayman	Director of Finance (3)	G&A	0%	0%
Derrek Jones	Accounting Manager (3)	G&A	0%	0%
Morvika McIntyre	Staff Accountant (3)	G&A	0%	0%
Amy Page	Director of Travel and Meetings (3)	G&A	0%	0%
Nancy McGuirk	Meeting/Travel Coordinator (3)	G&A	0%	0%
Julie Farver	Travel Associate (3)	G&A	0%	0%
Severina Kluizinaar	Office Manager/Subaward Specialist (3)	G&A	0%	0%
<b>FTEs</b>			<b>0.00</b>	<b>0.00</b>

Notes: M&A = Management and Administration, E&O = Education and Outreach; G&A = General and Administrative costs. (1) \* These positions are also assigned to tasks under the SODV Project related to the IODP-USIO SIC contract with NSF; (2) These positions are involved in outreach activities paid for by SOC funds; (3) These positions are funded by General and Administrative (G&A) costs (indirect costs) and work on all JOI programs. Employee names reflect the individuals employed in each position at the date of the submission of this document.

# FY06 JOI WBE BUDGET SUMMARY

Element	SIC-D	SIC-ND	Total
<b>Management and Administration</b>			
Salaries and Fringes	0	0	0
Travel	0	37,000	37,000
Supplies	0	0	0
Shipping	0	0	0
Communication	0	83,000	83,000
Contractual Services	0	250,000	250,000
Equipment	0	25,000	25,000
Other Direct Costs	0	0	0
Subtotal Direct Costs	0	395,000	395,000
Indirect Costs	0	138,600	138,600
<b>Total Management and Administration</b>	<b>0</b>	<b>533,600</b>	<b>533,600</b>
<b>Education and Outreach</b>			
Salaries and Fringes	0	0	0
Travel	0	77,582	77,582
Supplies	0	3,500	3,500
Shipping	0	0	0
Communication	0	0	0
Contractual Services	0	35,720	35,720
Equipment	0	6,000	6,000
Other Direct Costs	0	0	0
Subtotal Direct Costs	0	122,802	122,802
Indirect Costs	0	34,385	34,385
<b>Total Education and Outreach</b>	<b>0</b>	<b>157,187</b>	<b>157,187</b>
<b>Total Direct Costs</b>	<b>0</b>	<b>517,802</b>	<b>517,802</b>
<b>Total Indirect Costs</b>	<b>0</b>	<b>172,985</b>	<b>172,985</b>
<b>Total JOI</b>	<b>0</b>	<b>690,787</b>	<b>690,787</b>

The JOI budget costs are divided into management and administration and education and outreach elements pertaining to SIC nondemobilization activities as explained below. There are no demobilization costs requested in the JOI budget.

**Salaries and Fringes**—Salary and fringes, including an anticipated 3% cost-of-living allowance and estimated fringe benefits rate of 35%.

SIC-ND—All JOI employees are supported by SOC and POC salary requests, so there are no SIC-related salary costs in this budget. Salary and fringes for JOI staff supporting the IODP-USIO Program (see JOI organizational chart and JOI positions and percent effort table in the main part of the IODP-USIO FY06 Program Plan, which reflects the sum of SOC and POC effort by Program staff). All administrative support staff salaries and benefits are charged to the General and Administrative Costs (indirect) line item.

**Travel**—Transportation, per diem, and lodging.

SIC-ND—Management and Administration (M&A) travel is requested to support staff attendance at meetings with JOI subcontractors, and for professional training of JOI staff. Education and Outreach (E&O) travel is requested to support participants in the Teacher at Sea initiative (\$11,882) and the expedition teacher workshop (\$15,000); the Historically Black Colleges and Universities (HBCU) fellowship and intern program (\$7,000); support for M.S.-

Ph.D. partnerships in diversity (\$8,000); dissemination of platform enrichment activities (\$7,500); support of scientist outreach to congress (\$7,200), press events (\$2,000), staffing of booths at national and international meetings (\$11,000), and development of museum exhibits and public lectures (\$8,000).

**Supplies**—General office supplies and expendables.

SIC-ND—General office supplies and expendables for M&A activities at JOI and E&O activities for the JOI Alliance under this contract, including partial costs of informational materials, posters, and brochures for congressional outreach and platform enrichment activities.

**Shipping**—Postage, express mail, courier services.

SIC-ND—Postage and courier services for M&A activities of the JOI office and for E&O activities for the JOI Alliance under this contract.

**Communication**—Telephone and fax charges and Internet services.

SIC-ND—M&A costs for broadband service charges to support video conferencing activities (upgrade from T1 to T3 service) in FY06 (12 months × \$6,500/month + \$5,000 installation fee).

**Contractual Services**—Consultant and contract services.

SIC-ND—M&A funds are requested for consultant services to provide support and advanced training to JOI staff in the operation of network and video conferencing equipment (\$25,000) and to substantially advance work to complete the IODP-USIO Environmental Impact Statement (EIS) for operations beyond FY06 (\$225,000). E&O funds are requested to provide stipends to teachers producing deliverables for syn- and post-expedition activities as part of the IODP-USIO “Teacher at Sea” initiative (\$7,720); to support the participation of teachers in the proposed teacher’s workshop (\$10,000), which is planned for the transit from San Diego, CA, to Balboa (following Expedition 312); and to provide stipends to fellowship and internship recipients from Historically Black Colleges and Universities (\$18,000).

**Equipment**—Procurement, upgrading, or fabrication of equipment.

SIC-ND—M&A funds are requested to upgrade JOI computer network equipment (\$10,000) and purchase a large-format printer (\$15,000) during FY06. E&O funds are requested to purchase mobile video conferencing equipment (\$6,000) for use aboard the *JOIDES Resolution* to support E&O activities being broadcast from remote locations throughout the ship during the remaining expeditions of FY06.

**Other Direct Costs**—None budgeted.

**General and Administrative Costs**—The NSF-approved provisional rate of 28% was used to calculate general and administrative (G&A) costs. G&A costs are charged on all direct costs, and on the first \$100,000 of all subcontracts JOI administers under a particular contract.

SIC-ND—The Management and Administration (M&A) budget includes additional G&A costs (\$28,000) for the anticipated subcontract with an environmental consultant to complete an Environmental Impact Statement (EIS) for the IODP-USIO operations beyond FY06.

**INTEGRATED OCEAN DRILLING PROGRAM  
United States Implementing Organization  
Systems Integration Contractor**

**Science Services,  
Lamont-Doherty Earth Observatory  
of Columbia University**

**PROGRAM PLAN APPENDIX  
FY06 to NSF**

For Time Period  
1 October 2005 to 30 September 2006

**AMOUNT PROPOSED FY06: \$579,141 (SIC)**

Respectfully Submitted to:  
National Science Foundation



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David Goldberg  
Director, Science Services, IODP  
Lamont-Doherty Earth Observatory of  
Columbia University  
Palisades, NY 10964

20 July 2005



# INTRODUCTION

The key elements of the Integrated Ocean Drilling Program (IODP)-U.S. Implementing Organization (USIO) Science Services, Lamont-Doherty Earth Observatory (LDEO) of Columbia University, responsibilities specific to this appendix include the following:

- Provision of ongoing management services, including subcontract supervision and panel liaisons.
- Planning and implementation of demobilization of the *JOIDES Resolution* at the conclusion of IODP-USIO Phase 1 operations.
- Materials and logistical support required for preparation of Phase 2 expedition implementation.
- Support of the maintenance and enhancement of downhole tools necessary to achieve the scientific goals of riserless drilling.
- Provision of support for third-party developers and proponents in the development of expedition-specific tools.
- Support of a collaborative working relationship with IODP Management International, Inc. (IODP-MI), the Japanese and European implementing organizations (IOs), and the IODP science advisory panels.

## FY06 IODP-USIO SCIENCE SERVICES, LDEO, WBE BUDGET SUMMARY

Element	SIC-D	SIC-ND	Total
Management and Administration	0	200,958	200,958
Technical, Engineering, and Science Support	0	269,278	269,278
<b>Subtotal Technical, Engineering, and Science Support</b>	0	269,278	269,278
<b>Subtotal Engineering Development</b>	0	0	0
Core Curation	0	0	0
<b>Subtotal Core Curation</b>	0	0	0
<b>Subtotal DSDP/ODP Core Redistribution</b>	0	0	0
Data Management	0	0	0
Publications	0	0	0
Logging	108,905	0	108,905
Education and Outreach	0	0	0
<b>Total LDEO</b>	<b>108,905</b>	<b>470,236</b>	<b>579,141</b>

# FY06 IODP-USIO SCIENCE SERVICES, LDEO, WBE BUDGET DETAIL

Element/Expense Category	SIC-D	SIC-ND	Total
<b>Management and Administration</b>			
Salaries and Fringes	0	124,446	124,446
Travel	0	4,734	4,734
Supplies	0	965	965
Shipping	0	454	454
Communication	0	489	489
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	0	257	257
<b>Total Direct Costs</b>	<b>0</b>	<b>131,345</b>	<b>131,345</b>
<b>Modified Total Direct Costs</b>	<b>0</b>	<b>131,345</b>	<b>131,345</b>
Indirect Costs	0	69,613	69,613
<b>Management and Administration Total</b>	<b>0</b>	<b>200,958</b>	<b>200,958</b>
<b>Technical, Engineering, and Science Support</b>			
Salaries and Fringes	0	163,772	163,772
Travel	0	2,399	2,399
Supplies	0	3,373	3,373
Shipping	0	514	514
Communication	0	1,029	1,029
Contractual Services	0	0	0
Equipment	0	6,500	6,500
Other Direct Costs	0	663	663
Day Rate	0	0	0
Fuel and Lubricants	0	0	0
Per Diem	0	0	0
Port Calls	0	0	0
Insurance	0	0	0
Other	0	0	0
<b>Subtotal Technical, Engineering, and Science Support</b>	<b>0</b>	<b>178,250</b>	<b>178,250</b>
<b>Subtotal Engineering Development</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Direct Costs</b>	<b>0</b>	<b>178,250</b>	<b>178,250</b>
<b>Modified Total Direct Costs</b>	<b>0</b>	<b>171,750</b>	<b>171,750</b>
Indirect Costs	0	91,028	91,028
<b>Technical, Engineering, and Science Support Total</b>	<b>0</b>	<b>269,278</b>	<b>269,278</b>

Continued on next page.

# FY06 IODP-USIO SCIENCE SERVICES, LDEO, WBE BUDGET DETAIL (CONTINUED)

Element/Expense Category	SIC-D	SIC-ND	Total
<b>Data Management</b>			
Salaries and Fringes	0	0	0
Travel	0	0	0
Supplies	0	0	0
Shipping	0	0	0
Communication	0	0	0
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	0	0	0
Total Direct Costs	0	0	0
Modified Total Direct Costs	0	0	0
Indirect Costs	0	0	0
<b>Data Management Total</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Logging</b>			
Salaries and Fringes	0	0	0
Travel	12,000	0	12,000
Supplies	3,500	0	3,500
Shipping	10,000	0	10,000
Communication	500	0	500
Contractual Services	69,125	0	69,125
Equipment	0	0	0
Other Direct Costs	0	0	0
Total Direct Costs	95,125	0	95,125
Modified Total Direct Costs	26,000	0	26,000
Indirect Costs	13,780	0	13,780
<b>Logging Total</b>	<b>108,905</b>	<b>0</b>	<b>108,905</b>
Grand Total Direct Costs	95,125	309,595	404,720
Indirect Costs	13,780	160,641	174,421
<b>TOTAL IODP-USIO Science Services, LDEO</b>	<b>108,905</b>	<b>470,236</b>	<b>579,141</b>



## IODP-USIO Science Services, LDEO, Positions and Percent Effort

The LDEO positions and percent effort that support the SIC tasks are outlined as follows:

Name	Position	WBE Element	% Effort SIC-D	% Effort SIC-ND
Dave Goldberg	Director	M&A	0%	22%
Marsha Meyer	Administrative Assistant	M&A	0%	36%
Alberto Malinverno	Principal Scientist	M&A	0%	9%
Tim Brewer	Chief Scientist	TE&SS	0%	0%
Philippe Pezard	Chief Scientist	TE&SS	0%	0%
Renate Pechinig	Chief Scientist	TE&SS	0%	0%
Yasuyuki Nakamura	Chief Scientist	TE&SS	0%	0%
Mary Reagan	Deputy Director	M&A	0%	33%
Janette Thompson	Office Coordinator	M&A	0%	0%
Joëlle Gastimbide	Office Coordinator	M&A	0%	0%
Carl Brenner	Technical Writer	M&A	0%	16%
TBN	Administrative Assistant	M&A	0%	31%
Gerardo Iturrino	Supervisor Science Operations	TE&SS	0%	0%
TBN	Logging Staff Scientist	TE&SS	0%	0%
Sean Higgins	Logging Staff Scientist	TE&SS	0%	0%
Heike Delius	Logging Staff Scientist	TE&SS	0%	0%
Marc Reichow	Logging Staff Scientist	TE&SS	0%	0%
TBN	Logging Staff Scientist	TE&SS	0%	0%
Florence Einaudi	Logging Staff Scientist	TE&SS	0%	0%
Akram Belghoul	Logging Staff Scientist	TE&SS	0%	0%
Margarete Linek	Logging Staff Scientist	TE&SS	0%	0%
Takeshi Tsuji	Logging Staff Scientist	TE&SS	0%	0%
Gilles Guerin	Senior Technical Analyst/Applications Developer	TE&SS	0%	0%
Ann Cook	Graduate Student	TE&SS	0%	0%
Zhiguo Cheng	Graduate Student	TE&SS	0%	0%
Dan Quoidbach	Manager of Information Services	TE&SS/DM	0%	0%
Cristina Broglia	Data Services Supervisor	DM	0%	0%
Trevor Williams	Senior Log Analyst	TE&SS	0%	0%
Ted Baker	Systems Analyst/Database Administrator	TE&SS	0%	0%
Jim Murray	Systems/Database Assistant	DM	0%	0%
Josiane Tack	Systems Administrator	TE&SS	0%	0%
Kazuko Nagao	Web/Graphics Developer	TE&SS	0%	0%
Greg Myers	Manager of Engineering and Technical Services	TE&SS	0%	38%
Walt Masterson	Engineering/Logistics Coordinator	TE&SS	0%	47%
Will Keogh	Electrical Engineer	TE&SS	0%	44%
TBN	Mechanical Engineer	TE&SS	0%	50%
Golam Sarker	Engineering Technical Analyst	TE&SS	0%	50%
	<b>FTEs</b>		0.00	3.76

Notes: M&A = Management and Administration, TE&SS = Technical, Engineering, and Science Support, DM = Data Management. FTE = full-time equivalent. Employee names reflect the individuals employed in each position at the date of the submission of this document.

# MANAGEMENT AND ADMINISTRATION

## RESPONSIBILITIES

The following tasks specific to this appendix support the Management and Administration (M&A) Work Breakdown Element (WBE).

### Management

- Provide overall program oversight. Effectively and efficiently manage all science operation deliverables and ensure that they are consistent with NSF and IODP-MI requirements.
- Provide sound fiscal and contractual management of the activities and deliverables for which LDEO-Borehole Research Group (BRG) is responsible.
- Ensure the use of project management techniques to effectively manage resources and provide program accountability.
- Prepare required reports (e.g., quarterly reports, program plans).

### Planning Activities

- Liaise as needed with Science Advisory Structure (SAS) panels (e.g., Science Planning and Policy Committee [SPPOC], Science Planning Committee [SPC]), and IODP-MI Task Force as well as with other IOs.
- Coordinate training opportunities for members of the IODP community. Work with the LDEO Science Operations to ensure adequate training of new Logging Staff Scientists.

## MANAGEMENT AND ADMINISTRATION BUDGET

Element/Expense Category	SIC-D	SIC-ND	Total
<b>Management and Administration</b>			
Salaries and Fringes	0	124,446	124,446
Travel	0	4,734	4,734
Supplies	0	965	965
Shipping	0	454	454
Communication	0	489	489
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	0	257	257
Total Direct Costs	0	131,345	131,345
Modified Total Direct Costs	0	131,345	131,345
Indirect Costs	0	69,613	69,613
<b>Management and Administration Total</b>	<b>0</b>	<b>200,958</b>	<b>200,958</b>

SIC nondemobilization (SIC-ND) funds for this WBE are budgeted as follows.

**Salaries and Fringes**—Personnel expenses including fringe benefits at 26.4% for six employees supporting M&A.

**Travel**—SAS panel meetings and task force meetings, contractor meetings, scientific and technical meetings, and port call visits.

**Supplies**—General office supplies.

**Shipping**—Postage and express mail costs.

**Communication**—Telephone and fax costs.

**Contractual Services**—None budgeted.

**Equipment**—None budgeted.

**Other Direct Costs**—Costs for meeting support.

**Indirect Costs**—Indirect costs at 53% are assessed on all charges except permanent equipment, tuition remission, and downhole tool insurance. In addition, subcontracts are charged indirect costs on the first \$25,000 of each contract. The indirect cost for all of the existing subcontracts was included in the FY04 Program Plan, so these subcontracts are not subject to indirect cost during FY06. Modified total direct costs (MTDC) are the total direct costs minus these exceptions.

# TECHNICAL, ENGINEERING, AND SCIENCE SUPPORT

## RESPONSIBILITIES

The following tasks specific to this appendix support the Technical, Engineering, and Science Support (TE&SS) WBE.

### Third-Party Tool Support

- Work with third-party developers for expedition-specific tool deployments.
- Ensure that the developers are aware of, and meet, all IODP reporting and technical third-party tool requirements.

### Documentation

- Maintain and, if necessary, create technical documentation associated with IODP-USIO Phase 1 logging equipment and technology. Archive engineering files in both hard copy and digital file formats.

### Technical Support of Shore-based Operations

- Maintain shore-based test and measurement equipment used in the support of the shipboard operations.
- Ensure safe laboratory and workspace operations at shore-based locations.
- Work with third-party developers to ensure that their tools meet third-party tool guidelines and IODP standards for design and operation.
- Provide liaisons to IODP advisory panels as appropriate.
- Provide technical training to keep staff members abreast of new technological advances.

### Engineering and Technology Enhancements

- Ensure that the combined engineering resources of the Joint Oceanographic Institutions, Inc. (JOI) Alliance will be utilized to create development priorities, integrated development teams, and regular communications with engineering development teams at other IODP IOs.
- Enhance measurement systems and/or technology as appropriate, within the guidelines of IODP panels, JOI Alliance priorities, and logging services needs in support of shipboard operations.
- Refine existing measurement systems as appropriate with new technology and capabilities.

## TECHNICAL, ENGINEERING, AND SCIENCE SUPPORT BUDGET

Element/Expense Category	SIC-D	SIC-ND	Total
<b>Technical, Engineering, and Science Support</b>			
Salaries and Fringes	0	163,772	163,772
Travel	0	2,399	2,399
Supplies	0	3,373	3,373
Shipping	0	514	514
Communication	0	1,029	1,029
Contractual Services	0	0	0
Equipment	0	6,500	6,500
Other Direct Costs	0	663	663
Day Rate	0	0	0
Fuel and Lubricants	0	0	0
Per Diem	0	0	0
Port Calls	0	0	0
Insurance	0	0	0
Other	0	0	0
<b>Subtotal Technical, Engineering, and Science Support</b>	0	178,250	178,250
<b>Subtotal Engineering Development</b>	0	0	0
Total Direct Costs	0	178,250	178,250
Modified Total Direct Costs	0	171,750	171,750
Indirect Costs	0	91,028	91,028
<b>Technical, Engineering, and Science Support Total</b>	<b>0</b>	<b>269,278</b>	<b>269,278</b>

SIC nondemobilization (SIC-ND) funds for this WBE are budgeted as follows.

**Salaries and Fringes**—Personnel expenses including fringe benefits at 26.4% for five employees supporting TE&SS.

**Travel**—Travel in support of shore-based activities (e.g., travel in connection with professional meetings, SAS panel meetings, etc.), and subcontractor meetings.

**Supplies**—General office and laboratory supplies.

**Shipping**—Freight, postage and express mail costs.

**Communication**—Telephone and fax costs including JOI Alliance conference calls, calls for expedition planning details, communications with SAS panel members, and interaction with subcontractors.

**Contractual Services**—None budgeted.

**Equipment**—Calibration equipment for tool maintenance.

**Other Direct Costs**—Repair and maintenance expenses for office equipment based on existing maintenance agreements and previous expenses for general repair and maintenance.

**Indirect Costs**—Indirect costs at 53% are assessed on all charges except permanent equipment, tuition remission, and downhole tool insurance. In addition, subcontracts are charged indirect costs on the first \$25,000 of each contract. The indirect cost for all of the existing subcontracts was included in the FY04 Program Plan, so these subcontracts are not subject to indirect cost during FY06. MTDC are the total direct costs minus these exceptions.

# LOGGING

## RESPONSIBILITIES

The following tasks specific to this appendix support the Logging WBE.

### Demobilization

- Remove logging systems from the vessel to a storage yard in either the Houston or College Station, Texas, or Palisades, New York, areas and placed in storage ready for installation on the IODP-USIO Phase 2 vessel.
- Remove leased subcontractor equipment from the vessel and deliver to the appropriate vendor location.
- Ship logging tools and acquisition systems to IODP-USIO Science Services, LDEO, for maintenance and repair work in preparation for installation aboard the IODP Phase 2 vessel.

## LOGGING BUDGET

Element/Expense Category	SIC-D	SIC-ND	Total
<b>Logging</b>			
Salaries and Fringes	0	0	0
Travel	12,000	0	12,000
Supplies	3,500	0	3,500
Shipping	10,000	0	10,000
Communication	500	0	500
Contractual Services	69,125	0	69,125
Equipment	0	0	0
Other Direct Costs	0	0	0
Total Direct Costs	95,125	0	95,125
Modified Total Direct Costs	26,000	0	26,000
Indirect Costs	13,780	0	13,780
<b>Logging Total</b>	<b>108,905</b>	<b>0</b>	<b>108,905</b>

SIC nondemobilization (SIC-ND) funds for this WBE are budgeted as follows.

**Salaries and Fringes**—None budgeted.

**Travel**—Travel to the *JOIDES Resolution* for IODP-USIO Science Services, LDEO personnel.

**Supplies**—Tools (i.e., cable and material removal equipment), packing, and shipping materials, and a leased sea freight container.

**Shipping**—Freight, postage, and express mail service costs. These costs primarily cover shipment of freight (equipment and materials) to be returned to IODP-USIO Science Services, LDEO.

**Communication**—Telephone and fax costs.

**Contractual Services**—Subcontract to Schlumberger for demobilization expenses. Includes costs associated with the return of logging equipment, hazardous materials, winch, and the Schlumberger Minimum Configuration Maxix (MCM) unit to Schlumberger. In addition, funds are budgeted for additional technical personnel support not included in the base budget.

***Equipment***—None budgeted.

***Other Direct Costs***—None budgeted.

***Indirect Costs***—Indirect costs at 53% are assessed on all charges except permanent equipment, tuition remission, and downhole tool insurance. In addition, subcontracts are charged indirect costs on the first \$25,000 of each contract. The indirect cost for all of the existing subcontracts was included in the FY04 Program Plan, so these subcontracts are not subject to indirect cost during FY06. MTDC are the total direct costs minus these exceptions.

**INTEGRATED OCEAN DRILLING PROGRAM  
United States Implementing Organization  
Systems Integration Contractor**

**Science Services,  
Texas A&M University**

**PROGRAM PLAN APPENDIX  
FY06 to NSF**

For Time Period  
1 October 2005 to 30 September 2006

**AMOUNT PROPOSED FY06: \$7,740,511 (SIC)**

Respectfully Submitted to:  
National Science Foundation



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Paul J. Fox  
Director, Science Services, IODP  
Texas A&M University  
College Station, TX 77845

20 July 2005





# INTRODUCTION

The key elements of the Integrated Ocean Drilling Program (IODP)-U.S. Implementing Organization (USIO) Science Services, Texas A&M University (TAMU) responsibilities specific to this appendix include the following:

- Planning and implementation of demobilization of the *JOIDES Resolution* at the conclusion of IODP-USIO Phase 1 operations.
- Support of staff and support and maintenance of technical facilities and equipment in preparation for IODP-USIO Phase 2 operations for the TAMU Science Operations Department's Technical Support, Operations, and Material Support Sections and TAMU Tools and Analytical Services Department's Analytical and Engineering Services Sections for the period of 1 January 2006 to 30 September 2006.
- Materials and logistical support required for preparation of Phase 2 expedition implementation.
- Support of the maintenance and enhancement of analytical equipment and engineering tools necessary to achieve the scientific goals of riserless drilling.
- Support of a collaborative working relationship with IODP Management International, Inc. (IODP-MI), the Japanese and European implementing organizations (IOs), and the IODP science advisory panels.

In addition, the administrative services in support of TAMU activities will be managed by Texas A&M Research Foundation (TAMRF), which will provide and manage all administrative services (contractual, fiscal, property/procurement, human resources assistance, and travel assistance) to support the demobilization activities conducted by TAMU.

The TAMU/TAMRF positions and percent effort that support the U.S. Systems Integration Contract (SIC) tasks are outlined as follows:

## Headquarters Department Positions and Percent Effort

Employee	Position	WBE Element	% Effort SIC-D	% Effort SIC-ND
Jeff Fox	Director	M&A	5%	0%
Doug Johnson	Associate Director for Health, Safety, and Environment	M&A	10%	0%
Agatha Moy	Administrative Coordinator	M&A	10%	0%
Kristin Hillis	Administrative Assistant	M&A	10%	0%
Jack Baldauf	Deputy Director of Science Services	M&A	5%	0%
Frank Williford	SODV Project Manager	M&A	0%	0%
Ann Klaus	Deputy Director of Data Services	M&A	0%	0%
Katerina Petronotis	Web Administrator	M&A	0%	0%
<b>FTEs</b>			<b>0.25</b>	<b>0.00</b>

Notes: M&A = Management and Administration. FTE = full-time equivalent. Employee names reflect the individuals employed in each position at the date of the submission of this document.

## Administrative Services Department Positions and Percent Effort

Employee	Position	WBE Element	% Effort SIC-D	% Effort SIC-ND
Rick McPherson	Vice President, TAMRF	M&A	10%	0%
Linda Norton	Office Manager	M&A	0%	0%
Mariel Atkins	Administrative Assistant	M&A	0%	0%
Megan Casey	Student Worker	M&A	0%	0%
TBN	Student Worker	M&A	0%	0%
Lynn Schulze	Associate Vice President, TAMRF Contracts, Property, and Procurement	M&A	5%	0%
Michelle Strickland	Supervisor of Procurement	M&A	25%	0%
Kim Lee	Procurement Specialist	M&A	15%	0%
Randy Watkins	Procurement Specialist	M&A	10%	0%
TBN	Procurement Specialist	M&A	15%	0%
Mary Pat Thraen	Supervisor of Property/Databases	M&A	25%	0%
Teresa Salamone	Office Assistant	M&A	15%	0%
Bill Lancaster	Associate Vice President, TAMRF Fiscal Affairs	M&A	10%	0%
Betty Skopik	Supervisor of Accounts Payable/Accounts Receivable	M&A	0%	0%
Ivonne Kindt	Assistant Supervisor of Accounts Payable/Accounts Receivable	M&A	5%	0%
Lanelle Boyd	Payables Specialist	M&A	5%	0%
TBN	Payables Specialist	M&A	5%	0%
Elizabeth Tosh	Student Worker	M&A	5%	0%
Valeria Day	Supervisor of Budget Planning/Analysis	M&A	5%	0%
Clydie Hughes	Budget Analyst	M&A	0%	0%
Sharon Sanders	Budget Analyst	M&A	0%	0%
Carolyn Engledow	Supervisor of Payroll	M&A	5%	0%
Kay Huff	Payroll Coordinator	M&A	5%	0%
TBN	Payroll Assistant	M&A	0%	0%
Angela Brown	Supervisor of Project Accounting	M&A	0%	0%
TBN	Senior Project Accountant	M&A	0%	0%
Kim Johnson	Supervisor of Human Resources/Insurance Services	M&A	10%	0%
Ollie Berka	Human Resources Advisor	M&A	10%	0%
Cynthia Escamilla	Human Resources Representative	M&A	0%	0%
Cristy Kasmiroski	Student Worker	M&A	0%	0%
Kathy Bass	Supervisor of Travel/Conference Coordination	M&A	8%	0%
Sande Rogers	Travel Disbursement Specialist	M&A	30%	0%
Denise DeShetler	Travel Services Specialist	M&A	8%	0%
	<b>FTEs</b>		<b>2.31</b>	<b>0.00</b>

Notes: All personnel employed by Texas A&M Research Foundation. M&A = Management and Administration. FTE = full-time equivalent. Employee names reflect the individuals employed in each position at the date of the submission of this document.

## Science Operations Department Positions and Percent Effort

<b>Employee</b>	<b>Position</b>	<b>WBE Element</b>	<b>% Effort SIC-D</b>	<b>% Effort SIC-ND</b>
Tom Davies	Manager of Science Operations	TE&SS	25%	30%
Janice Muston	Administrative Assistant	TE&SS	0%	65%
Jaime Sanchez	Graduate Assistant Research	TE&SS	0%	38%
TBN	Graduate Assistant Research	TE&SS	0%	38%
Brad Julson	Supervisor of Technical Support	TE&SS	24%	20%
Roy Davis	Laboratory Officer	TE&SS	24%	20%
Burney Hamlin	Laboratory Officer	TE&SS	24%	20%
Bill Mills	Laboratory Officer	TE&SS	0%	0%
Randy Gjesvold	Marine Instrumentation Specialist	TE&SS	24%	20%
Jurie Kotze	Marine Instrumentation Specialist	TE&SS	24%	20%
Mike Meiring	Marine Instrumentation Specialist	TE&SS	24%	20%
Pieter Pretorius	Marine Instrumentation Specialist	TE&SS	24%	20%
Tim Bronk	Assistant Laboratory Officer	TE&SS	24%	20%
Paul Teniere	Assistant Laboratory Officer	TE&SS	24%	20%
Dennis Graham	Marine Laboratory Specialist	TE&SS	24%	20%
Ted Gustafson	Marine Laboratory Specialist	TE&SS	24%	20%
Jennifer Henderson	Marine Laboratory Specialist	TE&SS	24%	20%
Eric Jackson	Marine Laboratory Specialist	TE&SS	24%	20%
Karen Johnston	Marine Laboratory Specialist	TE&SS	24%	20%
Chieh Peng	Assistant Laboratory Officer	TE&SS	24%	20%
Lisa Crowder	Assistant Laboratory Officer	TE&SS	24%	20%
Peter Kannberg	Marine Laboratory Specialist	TE&SS	24%	20%
Heather Paul	Marine Laboratory Specialist	TE&SS	24%	20%
Klayton Curtis	Marine Laboratory Specialist	TE&SS	24%	20%
Lisa Hawkins	Marine Laboratory Specialist	TE&SS	24%	20%
Mitch Malone	Supervisor of Science Support	TE&SS	0%	21%
C. Alvarez Zarikian	Staff Scientist	TE&SS	0%	36%
Adam Klaus	Staff Scientist	TE&SS	0%	29%
Jay Miller	Staff Scientist	TE&SS	0%	29%
Cedric John	Staff Scientist	TE&SS	0%	41%
TBN	Staff Scientist	TE&SS	0%	41%
TBN	Staff Scientist	TE&SS	0%	41%
TBN	Staff Scientist	TE&SS	0%	90%
TBN	Staff Scientist	TE&SS	0%	0%
Mike Storms	Supervisor of Operational Support	TE&SS	25%	32%
Gene Pollard	Operations Engineer	TE&SS	25%	25%
Ron Grout	Operations Superintendent	TE&SS	16%	48%
Steve Midgley	Operations Superintendent	TE&SS	0%	0%

Continued on next page.

## Science Operations Department Positions and Percent Effort (continued)

Employee	Position	WBE Element	% Effort SIC-D	% Effort SIC-ND
Pat Thompson	Supervisor of Materials Support	TE&SS	24%	50%
Dave Lehnert	Materials Specialist	TE&SS	24%	33%
Robert Mitchell	Marine Logistics Coordinator	TE&SS	24%	50%
Larry Obee	Marine Logistics Coordinator	TE&SS	24%	50%
Bob Kralich	Materials Technician	TE&SS	24%	50%
Justin Burt	Student Worker	TE&SS	24%	50%
Brian Wolf	Student Worker	TE&SS	24%	50%
Landon Hoppe	Student Worker	TE&SS	24%	50%
Robert McGehee	Student Worker	TE&SS	24%	50%
Lee McKnight	Student Worker	TE&SS	24%	50%
Jason Whitfield	Student Worker	TE&SS	24%	50%
Sandy Dillard	Shipping and Receiving Coordinator	TE&SS	24%	50%
	<b>FTEs</b>		<b>8.35</b>	<b>15.37</b>

Notes: TE&SS = Technical, Engineering, and Science Support. FTE = full-time equivalent. Employee names reflect the individuals employed in each position at the date of the submission of this document.

## Tools and Analytical Services Department Positions and Percent Effort

Employee	Position	WBS Element	% Effort SIC-D	% Effort SIC-ND
TBN	Manager of Tools and Analytical Services	TE&SS	10%	40%
Karen Graber	Staff Researcher	TE&SS	0%	25%
Marti Kacer	Administrative Assistant	TE&SS	0%	65%
Blake Hardgrave	Student Worker	TE&SS	0%	0%
Peter Blum	Supervisor of Analytical Services	TE&SS	6%	19%
David Houpt	Senior Project Administrator	TE&SS	6%	19%
Jason Deardorff	Laboratory Specialist II	TE&SS	13%	24%
Bob Wheatley	Laboratory Specialist II	TE&SS	13%	24%
Lisa Brandt	Laboratory Specialist I	TE&SS	13%	24%
TBN	Laboratory Specialist I	TE&SS	12.5%	12.5%
TBN	Laboratory Specialist I	TE&SS	13%	24%
TBN	Laboratory Specialist I	TE&SS	13%	24%
Chris Bennight	Research Specialist I	TE&SS	13%	24%
Trevor Cobine	Research Specialist I	TE&SS	12.5%	12.5%
Margaret Hastedt	Research Specialist I	TE&SS	11%	12%
TBN	Research Specialist I*	TE&SS	0%	0%
TBN	Research Specialist I*	TE&SS	0%	0%
Paul Foster	Applications Developer Administrator	TE&SS	6%	19%
David Fackler	Applications Developer IV	TE&SS	13%	19%
Dwight Hornbacher	Applications Developer III	TE&SS	13%	19%
John Eastlund	Applications Developer II	TE&SS	13%	19%
TBN	Applications Developer II*	TE&SS	13%	19%
TBN	Applications Developer I	TE&SS	13%	19%
TBN	Applications Developer I	TE&SS	13%	19%
TBN	Applications Developer I	TE&SS	13%	19%
Derryl Schroeder	Supervisor of Engineering Services	TE&SS	5%	30%
TBN	Electronic Specialist	TE&SS	0%	60%
Liping Chen	Engineer	TE&SS	5%	30%
Kevin Grigar	Engineer	TE&SS	10%	20%
Bob Aduddell	Engineer	TE&SS	0%	35%
TBN	Engineer	TE&SS	0%	35%
Eric Schulte	Senior Design Technician	TE&SS	0%	25%
Richard Dixon	Designer	TE&SS	10%	35%
Dean Ferrell	Designer	TE&SS	10%	35%
TBN	Graduate Assistant Research	TE&SS	0%	40%
TBN	Graduate Assistant Research	TE&SS	0%	40%
	<b>FTEs</b>		<b>2.73</b>	<b>8.86</b>

Notes: TE&SS = Technical, Engineering, and Science Support. FTE = full-time equivalent. \* = new positions for FY06. Employee names reflect the individuals employed in each position at the date of the submission of this document.

**Information Technology and Data Services Department  
Positions and Percent Effort**

<b>Employee</b>	<b>Position</b>	<b>WBE Element</b>	<b>% Effort SIC-D</b>	<b>% Effort SIC-ND</b>
Dave Becker	Manager of Information Technology and Data Services	TE&SS	5%	0%
Denise Ponzio	Information Services Assistant	TE&SS	2%	0%
Phil Gates	Supervisor of Information Technology Support	TE&SS	9%	0%
TBN	Senior Systems Administrator	TE&SS	0%	0%
Cesar Flores	Systems Administrator	TE&SS	0%	0%
Jennifer Hutchinson	Systems Administrator	TE&SS	9%	0%
Matt Mefferd	Systems Administrator	TE&SS	0%	0%
Michael Petersen	Senior Systems Support Specialist	TE&SS	0%	0%
Tariq Ayyub	Systems Support Specialist	TE&SS	0%	0%
David Morley	Associate Marine Computer Specialist	TE&SS	17%	0%
Mike Hodge	Associate Marine Computer Specialist	TE&SS	16%	0%
TBN	Associate Marine Computer Specialist	TE&SS	16%	0%
TBN	Associate Marine Computer Specialist	TE&SS	8%	0%
Paula Clark	Marine Computer Specialist	TE&SS	16%	0%
TBN	Marine Computer Specialist	TE&SS	16%	0%
TBN	Marine Computer Specialist	TE&SS	0%	0%
TBN	Marine Computer Specialist	TE&SS	0%	0%
Rakesh Mithal	Supervisor of Databases and Archives	DM	0%	0%
Julie Garcia	Graduate Assistant Research	DM	0%	0%
TBN	Graduate Assistant Research	DM	0%	0%
TBN	Senior Data Administrator	DM	0%	0%
Bo Slone	Data Librarian	DM	0%	0%
Layne Westover	Database Administrator	DM	0%	0%
Weining Chen	Software Applications Developer	DM	0%	0%
Ying Zhu	Software Applications Developer	DM	0%	0%
TBN	Software Applications Developer	DM	0%	0%
Bob Goll	Data Analyst	DM	0%	0%
Don Sims	Data Analyst	DM	0%	0%
Elizabeth Slone	Data Analyst	DM	0%	0%
John Beck	Senior Imaging Specialist	DM	8%	0%
Bill Crawford	Imaging Specialist	DM	0%	0%
Shannon Housley	Imaging Specialist	DM	0%	0%
John Firth	Curator	CC	0%	0%
Emily Springer	Graduate Assistant Research	CC	0%	0%
Gar Esmay	Superintendent, East Coast Repository	CC	0%	0%
Yasmin Yabyabin	Curatorial Specialist	CC	0%	0%
Dan Mountain	Student Worker	CC	0%	0%
TBN	Student Worker	CC	0%	0%
TBN	Student Worker	CC	0%	0%
Steve Prinz	Superintendent, West Coast Repository	CC	0%	0%

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**Information Technology and Data Services Department  
Positions and Percent Effort (continued)**

<b>Employee</b>	<b>Position</b>	<b>WBE Element</b>	<b>% Effort SIC-D</b>	<b>% Effort SIC-ND</b>
Phil Rumford	Superintendent, Gulf Coast Repository	CC	0%	0%
Bruce Horan	Curatorial Specialist	CC	0%	0%
TBN	Curatorial Specialist*	CC	0%	0%
Ross Berlin	Student Worker	CC	0%	0%
Jonathan King	Student Worker	CC	0%	0%
Clayton Mack	Student Worker	CC	0%	0%
Brian Schramm	Student Worker	CC	0%	0%
TBN	Student Worker	CC	0%	0%
Paula Weiss	Marine Curatorial Specialist	CC	17%	0%
	<b>FTEs</b>		<b>1.39</b>	<b>0.00</b>

Notes: TE&SS = Technical, Engineering, and Science Support, DM = Data Management, CC = Core Curation. FTE = full-time equivalent. \* = new positions for FY06. Employee names reflect the individuals employed in each position at the date of the submission of this document.

## Publication Services Department Positions and Percent Effort

Employee	Position	WBE Element	% Effort SIC-D	% Effort SIC-ND
Angie Miller	Manager of Publication Services	P	0%	0%
Barbara Turner	Administrative Assistant	P	0%	0%
Lorri Peters	Supervisor of Editing	P	0%	0%
Amy McWilliams	Editor	P	0%	0%
Heather Nevill	Editor	P	0%	0%
Shana Smith	Editor	P	0%	0%
TBN	Editor*	P	0%	0%
Kathy Phillips	Publication Specialist	P	0%	0%
Ginny Lowe	Report Coordinator	P	0%	0%
Jaime Gracia	Supervisor of Production	P	0%	0%
TBN	Production Specialist II	P	0%	0%
Kenneth Sherar	Production Specialist II	P	0%	0%
Ann Yeager	Distribution Specialist	P	0%	0%
Debbie Partain	Supervisor of Graphics	P	0%	0%
Patrick Edwards	Graphics Specialist II	P	0%	0%
Jennie Lamb	Graphics Specialist II	P	0%	0%
Nancy Luedke	Graphics Specialist II	P	0%	0%
Jennifer Presley	Yeoperson	P	0%	0%
TBN	Yeoperson	P	10%	0%
Jennifer Rumford	Electronic Publications Specialist	P	0%	0%
Gigi Delgado	Senior Publications Coordinator	P	0%	0%
Mary Mitchell	Publications Coordinator Assistant	P	0%	0%
Anthony Caviness	Student Worker	P	0%	0%
Brooke Perry	Student Worker	P	0%	0%
TBN	Additional Support**	P	0%	0%
	<b>FTEs</b>		<b>0.10</b>	<b>0.00</b>

Notes: P = Publications. FTE = full-time equivalent. \* new position for FY06. \*\* funding is also included for up to 2.45 FTEs for additional editing, graphics, and production support on an as-needed basis. Employee names reflect the individuals employed in each position at the date of the submission of this document.

# FY06 IODP-USIO SCIENCE SERVICES, TAMU/TAMRF, WBE SUMMARY BUDGET

Element	SIC-D	SIC-ND	Total
Management and Administration	182,738	0	182,738
Technical, Engineering, and Science Support	4,170,248	3,355,762	7,526,010
<b>Subtotal Technical, Engineering, and Science Support</b>	4,170,248	3,355,762	7,526,010
<b>Subtotal Engineering Development</b>	0	0	0
Core Curation	11,083	0	11,083
<b>Subtotal Core Curation</b>	11,083	0	11,083
<b>Subtotal DSDP/ODP Core Redistribution</b>	0	0	0
Data Management	15,477	0	15,477
Publications	5,203	0	5,203
Logging	0	0	0
Education and Outreach	0	0	0
<b>Total IODP-USIO Science Services, TAMU/TAMRF</b>	<b>4,384,749</b>	<b>3,355,762</b>	<b>7,740,511</b>

# FY06 IODP-USIO SCIENCE SERVICES, TAMU/TAMRF, TASK-ELEMENT SUMMARY BUDGET DETAIL

Element/Expense Category	SIC-D	SIC-ND	Total
<b>Management and Administration</b>			
Salaries and Fringes	167,708	0	167,708
Travel	12,160	0	12,160
Supplies	2,095	0	2,095
Shipping	0	0	0
Communication	275	0	275
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	500	0	500
<b>Subtotal Direct Costs</b>	<b>182,738</b>	<b>0</b>	<b>182,738</b>
Administrative Fee	0	0	0
<b>Total Management and Administration</b>	<b>182,738</b>	<b>0</b>	<b>182,738</b>
<b>Technical, Engineering, and Science Support</b>			
Salaries and Fringes	785,434	1,573,710	2,359,144
Travel	122,125	148,639	270,764
Supplies	104,185	377,433	481,618
Shipping	65,858	4,858	70,716
Communication	27,961	13,403	41,364
Contractual Services	0	0	0
Equipment	10,000	512,963	522,963
Other Direct Costs	3,054,685	724,756	3,779,441
Day Rate	2,291,871	0	2,291,871
Fuel and Lubricants	295,100	0	295,100
Per Diem	25,263	0	25,263
Port Calls	35,000	0	35,000
Insurance	61,488	0	61,488
Other	345,963	724,756	1,070,719
<b>Subtotal Technical, Engineering, and Science Support</b>	<b>4,170,248</b>	<b>3,355,762</b>	<b>7,526,010</b>
<b>Subtotal Engineering Development</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Technical, Engineering, and Science Support</b>	<b>4,170,248</b>	<b>3,355,762</b>	<b>7,526,010</b>
<b>Core Curation</b>			
Salaries and Fringes	9,531	0	9,531
Travel	1,552	0	1,552
Supplies	0	0	0
Shipping	0	0	0
Communication	0	0	0
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	0	0	0
<b>Subtotal Core Curation</b>	<b>11,083</b>	<b>0</b>	<b>11,083</b>
<b>Subtotal DSDP/ODP Core Redistribution</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Core Curation</b>	<b>11,083</b>	<b>0</b>	<b>11,083</b>

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# FY06 IODP-USIO SCIENCE SERVICES, TAMU/TAMRF, TASK-ELEMENT SUMMARY BUDGET DETAIL (CONTINUED)

Element/Expense Category	SIC-D	SIC-ND	Total
<b>Data Management</b>			
Salaries and Fringes	7,695	0	7,695
Travel	7,782	0	7,782
Supplies	0	0	0
Shipping	0	0	0
Communication	0	0	0
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	0	0	0
<b>Total Data Management</b>	<b>15,477</b>	<b>0</b>	<b>15,477</b>
<b>Publications</b>			
Salaries and Fringes	4,978	0	4,978
Travel	225	0	225
Supplies	0	0	0
Shipping	0	0	0
Communication	0	0	0
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	0	0	0
<b>Total Publications</b>	<b>5,203</b>	<b>0</b>	<b>5,203</b>
<b>Education and Outreach</b>			
Salaries and Fringes	0	0	0
Travel	0	0	0
Supplies	0	0	0
Shipping	0	0	0
Communication	0	0	0
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	0	0	0
<b>Total Education and Outreach</b>	<b>0</b>	<b>0</b>	<b>0</b>
Grand Total Direct Costs	4,384,749	3,355,762	7,740,511
Administrative Fee	0	0	0
<b>TOTAL IODP-USIO Science Services, TAMU/TAMRF</b>	<b>4,384,749</b>	<b>3,355,762</b>	<b>7,740,511</b>

# MANAGEMENT AND ADMINISTRATION

## RESPONSIBILITIES

The following responsibilities and tasks support the Management and Administration (M&A) Work Breakdown Element (WBE).

### **Science Services, TAMU, Management**

- Oversee and deliver all IODP-USIO Science Services, TAMU, activities and deliverables associated with SIC demobilization and nondemobilization activities.
- Ensure that an effective and efficient process is implemented to demobilize the *JOIDES Resolution*.
- Ensure that required legacy documentation associated with Phase 1 activities is identified.
- Provide efficient business and compliance services during the demobilization and transition phase of IODP.
- Provide appropriate administrative support to the demobilization team to ensure an efficient and smooth full demobilization of the *JOIDES Resolution*.

### **Contracts, Property, and Procurement, TAMRF, Management**

- Develop and carry out property policies and procedures for the demobilization of the *JOIDES Resolution*.
- Participate in the repair, replacement, disposal and/or storage of property to ensure that accountability is maintained.
- Work with the Phase 1 drilling contractor to facilitate a smooth transfer of title for designated shipboard property as specified in the contract.
- Conduct negotiations with the drilling contractor to ensure a smooth demobilization and closeout of contract L414071-01, with extension.

### **Fiscal Affairs, TAMRF, Management**

- Review and coordinate fiscal closeout of the drilling contractor activity, with a goal of receiving the final invoice 180 days post-demobilization.
- Provide fiscal support (payroll, budget analysis, payables and receivables) for the transition from Phase 1 to Phase 2.

### **Human Resources and Insurance Services, TAMRF, Management**

- Provide human resources and insurance services for demobilization and during the transition phase of IODP.
- Work with IODP-USIO Science Services, TAMU Headquarters, and affected employees to develop an appropriate personnel staffing program for the transition phase.

### **Travel/Conference Coordination, TAMRF, Management**

- Coordinate travel and conference coordination activities in support of demobilization and the transition from Phase 1 to Phase 2.

- Review and update, as necessary, Program Travel policies to ensure compliance and service requirements are met during demobilization and transition.
- Assist employees in obtaining required clearances to work or visit the demobilization site and IODP-USIO Science Services, TAMU Headquarters, not only in support of demobilization, but during the transition phase.

## MANAGEMENT AND ADMINISTRATION BUDGET

Expense Category	SIC-D	SIC-ND	Total
<b>Management and Administration</b>			
Salaries and Fringes	167,708	0	167,708
Travel	12,160	0	12,160
Supplies	2,095	0	2,095
Shipping	0	0	0
Communication	275	0	275
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	500	0	500
Business Conferences	500	0	500
Total Direct Costs	182,738	0	182,738
Administrative Fee	0	0	0
<b>Total Management and Administration</b>	<b>182,738</b>	<b>0</b>	<b>182,738</b>

Funds for this WBE are budgeted as follows

**Salaries and Fringes**—Salary and fringes, including an anticipated 2.82% state-mandated salary increase.

SIC-D—Salary and fringes for employees in the Headquarters and Administrative Services Departments (see percent effort table in the “Introduction” section).

SIC-ND—None budgeted.

**Travel**—Transportation, per diem, and lodging.

SIC-D—Liaison trips to the demobilization site prior to and during demobilization, and on-site expenses for the Administrative Services support team and two property custodians sailing the transit and working at the demobilization site.

SIC-ND—Travel expenses for the Deputy Director and TAMU Safety Panel to attend Environmental Protection Safety Panel (EPSP) meeting.

**Supplies**—Office and operational supplies.

SIC-D—Conference supplies, copy paper, computer supplies with an acquisition cost of less than \$1,000, miscellaneous supplies (e.g., toner, pens, paper, folders, tape, labels, tablets, pencils, etc.), material to print IODP business cards/IODP letterhead, and phone books.

SIC-ND—None budgeted.

**Shipping**—None budgeted.

**Communication**—None budgeted.

**Contractual Services**—None budgeted.

*Equipment*—None budgeted.

***Other Direct Costs:***

*Business Conferences*—Incidental expenses associated with meetings hosted by IODP-USIO Science Services, TAMU.

SIC-D—Two Program-wide conferences and meetings in or near College Station, Texas, dealing with demobilization.

SIC-ND—None budgeted.

*Administrative Fee*—None budgeted.



# TECHNICAL, ENGINEERING, AND SCIENCE SUPPORT

## RESPONSIBILITIES

The following tasks specific to this appendix support the Technical, Engineering, and Science Support WBE.

### Operational Support

- Conduct operational-related demobilization activities on the *JOIDES Resolution*.
- Service tubulars and any hardware that will be retained for use on the SODV.
- Conduct Expedition planning, including identifying long-lead items.
- Standardize completions, tools, data acquisition, Standard Operating Procedures (SOPs).
- Assess new operations technology/techniques.
- Assist in developing asset management database.
- Review and revise procedures and related software (Project A) for estimating expedition hardware requirements, costs, and time estimates.
- Review and update policies and procedures.

### Ship Operations

- Provide standard dockside shipboard services and oversee services provided by subcontractor during demobilization.

### Science Support

- Support technical exchange program by providing Staff Scientists to participate in *Chikyu* cruises.
- Provide technical training to keep staff members abreast of new technological advances.
- Travel to interface with IOs, planning groups, meetings, etc.
- Prepare for planning of IODP-USIO Phase 2 expeditions.
- Conduct Expedition project management training.
- Enhance project management process.
- Review and upgrade software used for participant tracking and report generation.
- Review and update policies and procedures.

### Technical Support

- Conduct demobilization activities of all laboratories on the *JOIDES Resolution*, including, packing, labeling, and documenting equipment and supplies for decommissioning, storing, upgrading in preparation for use in Phase 2.
- Service laboratory infrastructure equipment that will be retained.
- Develop enhancements to existing laboratory infrastructure equipment.

- Support technical exchange program by providing technical staff to participate in *Chikyu* cruises.
- Provide training to technical staff to keep abreast of new technological advances.
- Review existing and, if necessary, create new technical legacy documentation related to IODP-USIO Phase 1 operations, including all SOPs.
- Review and update policies and procedures.

## **Materials Support**

- Provide logistical support in support of demobilization of the *JOIDES Resolution*.
- Assist in cataloging tools and supplies removed from the ship and recondition or service as necessary.
- Recertify staff for HazMat.
- Develop design requirements for reusable core liner shipping containers.
- Investigate materials for reusable core shipping boxes.
- Review core liner specifications to find less costly plastic with better heat, shock, and cold properties.
- Review and assess port call reconnaissance process.
- Secure and help set up storage and test facility for SODV.
- Review storage strategies for ship and shore.
- Review shipping and inventory procedures for supplies (laboratory and hardware) to improve efficiency, including review of usage, resupply levels, and economical reorder quantities.
- Provide machine shop support and purchase supplies for support, testing, and enhancement of existing engineering tools.
- Review mechanical state of IODP manufacturing gauges and return to vendor for recalibration where necessary.
- Develop documentation necessary to obtain certification as a favored importer of record (C-TPAT).
- Review present shipping procedures to improve efficiency and cost effectiveness, including reducing expenditures on high weight/high volume items.
- Review and update policies and procedures.

## **Information Technology Support**

- Conduct demobilization activities associated with the *JOIDES Resolution* IT equipment, including packing, labeling, and documenting equipment and supplies for decommissioning or repurposing for use on shore.
- Review existing and, if necessary, create new technical legacy documentation related to IODP-USIO Phase 1 operations, including all standard operating procedures.

## **Analytical Services**

- Support demobilization activities of the *JOIDES Resolution*, including, packing, labeling, and documenting analytical systems for decommissioning, or storing or upgrading in preparation for use in Phase 2.

- Create, adopt, and maintain inventory information, specifications, and technical documentation associated with analytical systems and procedures that will be carried from Phase 1 to Phase 2.
- Maintain, upgrade, and operate shore-based laboratories in accordance with the goals of the IODP science advisory panels.
- Provide technical training to keep staff members abreast of new technological advances and to prepare for management of analytical systems in Phase 2.
- Support technical exchange program by involving staff in *Chikyu* cruises.
- Curate and upgrade Phase 1 analytical systems in preparation for transfer to the IODP-USIO Phase 2 vessel.
- Work with IODP-MI and other IOs to coordinate IODP analytical services and data management activities. Assist IODP-MI with its implementation plan to integrate IODP data from all IOs.

## **Engineering Services**

- Maintain and, if necessary, create technical documentation associated with IODP-USIO Phase 1 coring and drilling equipment, legacy completions, and technology.
- Curate and upgrade Phase 1 engineering systems in preparation for transfer to the IODP-USIO Phase 2 vessel.

Specific activities that will be pursued by Analytical and Engineering Services during the last eight months of FY06 are as follows:

### ***Analytical Services:***

- Assess all analytical systems, curating those to be used in Phase 2 and surplusing those not to be used anymore.
- Implement application server and related technology for more effective applications management in Phase 2.
- Implement applications development tools and methods upgrades.
- Complete migration of old Janus (NeuronData) applications (Corelog, Sampling, Curation, Operations) to Java.
- Enhance analytical systems inventory and documentation database with ODP/Phase 1 legacy information and implement Phase 2 requirements.
- Continue training of technical staff on analytical methods and technologies.

### ***Engineering Services:***

- Complete service center laboratory to include calibration facilities for temperature and pressure tools.
- Develop and implement Simulated Borehole Test Facility (SBTF) test program for Davis-Villinger Temperature Pressure Probe (DVTPP), advanced piston corer temperature (APC-T) tool, APCT-2, and Instrumented Water Sampler (IWS).
- Develop tool calibration procedures and test program for downhole measurement tools (APCT, Davis-Villinger Temperature Probe [DVTP], DVTPP, and IWS) to characterize each tool.

- Complete dynamometer test area at Riverside campus by adding a frame and drive motor.

Specific engineering systems enhancements are as follows:

***Service Center Laboratory***—Engineering Services maintains temperature calibrations for six different types of in situ downhole tools (twenty tools total). For calibration and verification of these tools, a calibration room to house the temperature bath and dead weight tester is required to ensure more thorough calibration of tools prior to Phase 2 mobilization in support of expeditions.

***Riverside Test Facilities***—The SBTF and the dynamometer are located at the TAMU Riverside Campus. A shelter is needed to protect the equipment from the elements. Additional furniture, such as benches, shelves, and secure cabinets and tool boxes will be acquired.

***Test Program for Downhole Measurement Tools***—A comprehensive test program for APCT, DVTP, DVTPP, and IWS will be conducted to characterize each individual tool. The SBTF, along with the temperature water bath and dead weight tester, will be used in the exercise to document each tool’s operational parameters, which will be used to establish an operating baseline. As a tool is cycled back to shore it will be tested and compared to its baseline. The establishment of routine verification of tool performance will drive improvements that will increase reliability and data quality. Test integration hardware for the instruments will be built.

***Dynamometer***—Prototype tools will be put through simulated functional tests on shore prior to sea trials. Not only does land testing reduce the design cycle, but it will also save costs of components and vessel time. Engineering Services has acquired a surplus dynamometer module from Maurer Technology. The additional hardware needed to create a functional dynamometer facility includes a frame, motor, swivel, load cells, and data acquisition electronics. An onsite dynamometer facility will be used to verify the Drilling Sensor Sub (DSS), Weight-on-Bit (WOB), and Torque-on-Bit (TOB) measurements. The Core Barrel–Retrievable Memory Module (CB-RMM) will be mounted inside the DSS and tested for shock and vibration to simulate the downhole dynamic conditions. Test integration hardware for the DSS/CB-RMM will be built.

## TECHNICAL, ENGINEERING, AND SCIENCE SUPPORT BUDGET

Expense Category	SIC-D	SIC-ND	Total
Salaries and Fringes	785,434	1,573,710	2,359,144
Travel	122,125	148,639	270,764
Supplies	104,185	377,433	481,618
Shipping	65,858	4,858	70,716
Communication	27,961	13,403	41,364
Contractual Services	0	0	0
Equipment	10,000	512,963	522,963
Other Direct Costs	3,054,685	724,756	3,779,441
Day Rate	2,291,871	0	2,291,871
Fuel and Lubricants	295,100	0	295,100
Per Diem	25,263	0	25,263
Port Calls	35,000	0	35,000
Insurance	61,488	0	61,488
Other	345,963	724,756	1,070,719
Relocation	0	49,500	49,500
Training	0	191,065	191,065
Business Conferences	200	4,700	4,900
Software	0	51,750	51,750
Insurance	0	2,064	2,064
Services	207,100	290,000	497,100
Equipment Rental	10,000	0	10,000
Other Expense—ODL	127,400	0	127,400
Furniture	0	18,000	18,000
Recruiting	0	21,760	21,760
Maintenance and Repair	858	92,517	93,375
Library	405	3,400	3,805
<b>Subtotal Technical, Engineering, and Science Support</b>	<b>4,170,248</b>	<b>3,355,762</b>	<b>7,526,010</b>
<b>Subtotal Engineering Development</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Technical, Engineering, and Science Support</b>	<b>4,170,248</b>	<b>3,355,762</b>	<b>7,526,010</b>

Funds for this WBE are budgeted as follows:

**Salaries and Fringes**—Salary and fringes and sea pay, including an anticipated 2.82% state-mandated salary increase.

SIC-D/SIC-ND—Salary and fringes for Science Operations and Tools and Analytical Services employees and the Manager and Information Services Assistant of Information Technology and Data Services (see percent effort table in the “Introduction” section).

**Travel**—Transportation, per diem, and lodging.

SIC-D—Travel expenses for staff that will sail on the final transit to Galveston and support demobilization activities.

SIC-ND—Professional meetings and conferences; local travel to consult with vendors; SAS panel meetings; IODP-MI and IO data management and analytical systems coordination meetings; and JOI Alliance team meetings, meetings to discuss operational issues with the Center for Deep Earth Exploration (CDEX) and European Consortium for Ocean Research Drilling (ECORD) Science Operator (ESO); IODP-USIO joint management team meetings;

EPSP, IODP Task Force, and Review Committee (REVCOM) meetings; and travel expenses for staff that will participate in *Chikyu* shakedown cruises.

**Supplies**—Office and operational supplies.

SIC-D—General office and operational supplies and packing, crating, and other supplies for shipping and storage of equipment removed from the *JOIDES Resolution*.

SIC-ND—General office and operational supplies, laboratory supplies for testing and operating the R/V *JOIDES Resolution* analytical systems during the Phase 1 to Phase 2 transition period and for the maintenance and operation of the shore laboratory facilities, supplies for servicing and testing equipment retained for Phase 2, limited quantities of long lead time routine drilling supplies (casing hangers, landing rings, sand line) in preparation for Phase 2 operations (Note that depending on market conditions the lead time to acquire these items can exceed 12 months.). Spares and supplies for ongoing maintenance and repair of the APCT tools, DVTP and DVTPP tools, IWS tool, APC-Methane tools, DSS-RMM tools, and motor-driven core barrel (MDCB) tool and rig instrumentation. Also included are laboratory supplies, instruments, equipment, and fabrication of test interface hardware for conducting a comprehensive test program for the above downhole tools.

**Shipping**—Postage, express mail, and freight.

SIC-D—Shipping costs for transportation to College Station of all materials removed from *JOIDES Resolution* at demobilization.

SIC-ND—None budgeted.

**Communication**—Telephone and fax charges. Very small aperture terminal (VSAT) and limited Inmarsat communication between shipboard participants and shore.

SIC-D—Standard line charges, long distance, and fax charges. VSAT and Inmarsat communications costs for the demobilization period, including AOL and Centrex charges in the demobilization port, less the demobilization portion of the \$3,000/month payment from the ship subcontractor for its share of VSAT service costs, and the VSAT service provider's cost for deinstallation of equipment onboard the riserless vessel.

SIC-ND—Standard line charges, long distance, and fax charges.

**Equipment**—Procurement, upgrading, or fabrication of equipment with an acquisition cost of over \$5,000 plus those items as defined by TAMRF policy.

SIC-D—Computer and printer equipment and network device for use in the temporary office in Galveston.

SIC-ND—Limited quantities of long lead time routine drilling equipment (drill collars, knobby joints) in preparation for Phase 2 operations (Note that depending on market conditions the lead time to acquire these items can exceed 12 months.); one Sun 8 Applications Server for analytical systems development and enhancement for Phase 2; upgrade of test facilities at the TAMU Riverside Campus, including installation of a weather protection shelter for the Simulated Borehole Test Facility and mounting a drive motor to the dynamometer (acquired from Maurer Research Center); and two new forklifts to replace old forklifts currently used for warehouse areas in College Station. One forklift is electrically powered and used indoors in the staging area of the ODP building. The other vehicle is gasoline powered and is used to move drilling and coring equipment in the storage area at the Riverside Campus several miles away. The present

vehicles were acquired 20 years ago at the beginning of ODP and have become increasingly costly and difficult to maintain. Reliability is becoming an issue, increasing the potential risk of safety hazards (e.g., hydraulic hose breakage) and missing shipping deadlines. In FY03, \$4,700 was spent on maintenance and one vehicle was out of service for five weeks while a series of technicians tried to repair it. Purchase of new vehicles will reduce the time and expense devoted to maintenance and will allow us to continue to provide reliable service during IODP.

***Other Direct Costs:***

*Day Rates*—Vessel staffing for the subcontractor’s sailing crew and drilling personnel.

SIC-D—Costs based on 13 days at the cruising rate and 22 days at the standby rate.

SIC-ND—None budgeted.

*Fuel and Lubricants*—Fuel for the riserless vessel.

SIC-D—Estimated portion of fuel purchased in Balboa required for demobilization period.

SIC-ND—None budgeted.

*Per Diem*—Shipboard catering.

SIC-D—Shipboard catering costs for 25 participants on the 7-day transit from Balboa to Galveston and 22-day demobilization period in Galveston, lab stack cleaning costs at \$14.00/day during the transit to Galveston and the 1-day port call at the conclusion of the transit.

SIC-ND—None budgeted.

*Port Calls*—None budgeted.

*Insurance*—Annual insurance premiums.

SIC-D—Annual insurance premiums for coverage associated with the operation of the vessel as described in Appendix I of the “Integrated Ocean Drilling Program, United States Implementing Organization, JOI Alliance (Joint Oceanographic Institutions, Inc., Lamont-Doherty Earth Observatory of Columbia University, Texas A&M University) Program Plan FY06 to IODP-MI,” submitted on 19 April 2005. Amount budgeted is based on the quote received from the insurance underwriter for four additional months of coverage in FY05 and is for the period beginning October 1, 2005 and ending January 31, 2006. Based on 35 days (28%) of the 123 total days of coverage being scheduled as demobilization.

SIC-D—Insurance on IODP-USIO Science Services, TAMU, vehicles.

*Relocation*—Relocation costs for new employees.

SIC-D—None budgeted.

SIC-ND—Moving expenses for newly hired professional staff and relocation assistance for technical support staff on the Alternative Sea Pay Plan (ASPP) to return to College Station to work during the transition from Phase 1 to Phase 2 operations.

*Training*—Registration, transportation, per diem, and lodging expenses related to professional training.

SIC-D—None budgeted.

SIC-ND—Data management, IT technical, and management training for staff.

*Business Conferences*—Incidental expenses associated with meetings hosted by IODP-USIO Science Services, TAMU.

SIC-D—Expenses for five 1-day liaison meetings.

SIC-ND—Expenses for five 1-day liaison meetings and precruise planning meetings for Phase 2 expeditions.

*Software*—Software purchases and upgrades.

SIC-D—None budgeted.

SIC-ND—Application development tools, version control software, bug tracking services, systems design software, data analysis software, and Parts Data Management software from SolidWorks.

*Services*—Expert assistance.

SIC-D—TAMU Physical Plant services; Canon copier services; external copying; stevedoring; fresh water; waste removal; rental of TAMU vans; water, sewage, and electricity for temporary office in Galveston; security during demobilization period in Galveston; dismantling and removing materials from the ship during demobilization, including disposal of chemicals, vendor servicing of equipment, and so on; inspection, recutting, and coating drill pipe and refurbishing tools; and lease of storage space for equipment and materials during the demobilization period January through March 2006, based on current costs of up to 20,000 sq. ft. of commercial, climate-controlled space.

SIC-ND—TAMU Physical Plant services; Canon copier services; external copying; programming assistance to replace Crew & Cruise, the shipboard staffing data management system; annual physical exams for staff sailing on *Chikyu*; programming assistance to revise Project A and time estimator software and for weather assessments of planned Phase 2 operating areas; inspection and calibration of gauges; lease of storage space for equipment and materials during the transition period April through December based on current costs of up to 20,000 sq. ft. of commercial, climate-controlled space; and utilities for leased storage and SODV test facility space.

*Equipment Rental*—Rental of equipment when it is more economical to rent than purchase.

SIC-D—Rental and movement of a trailer, and rental of furniture for the temporary office in Galveston.

SIC-ND—None budgeted.

*Other Computing Services*—None budgeted.

*Furniture*—Office furniture.

SIC-D—None budgeted.

SIC-ND—Benches, shelves, and secure cabinets for the test facility at Riverside Campus.

*Recruiting*—Employee recruitment.

SIC-D—None budgeted.

SIC-ND—Local advertisements and advertisements in science journals and trade journals and other costs related to recruiting professional staff for Phase 2 operations.



*Maintenance and Repair*—Maintenance agreements and equipment repairs.

SIC-D—Maintenance and repair of vehicle fleet, equipment in warehouse, overhead cranes, scales, and other loading dock equipment.

SIC-ND—Miscellaneous maintenance and repair costs incurred by both curated Phase 1 and new Phase 2 systems, and maintenance agreements for engineering software licenses.

*Library*—Books, journals, and other resources.

SIC-D/SIC-ND—Industry publications, books, and documentation materials required for reference, including subscriptions to professional journals.

# CORE CURATION

## RESPONSIBILITIES

The following tasks specific to this appendix support the Core Curation WBE.

- Conduct demobilization activities related to the core laboratory on the *JOIDES Resolution*, including, packing, labeling, and documenting equipment and supplies for decommissioning, as well as storing or upgrading in preparation for use in Phase 2.
- Review existing and, if necessary, create new legacy documentation related to IODP-USIO Phase 1 operations, including all standard operating procedures.

## CORE CURATION BUDGET

Expense Category	SIC-D	SIC-ND	Total
Salaries and Fringes	9,531	0	9,531
Travel	1,552	0	1,552
Supplies	0	0	0
Shipping	0	0	0
Communication	0	0	0
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	0	0	0
<b>Subtotal Core Curation</b>	<b>11,083</b>	<b>0</b>	<b>11,083</b>
<b>Subtotal DSDP/ODP Core Redistribution</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Core Curation</b>	<b>11,083</b>	<b>0</b>	<b>11,083</b>

Funds for this WBE are budgeted as follows:

**Salaries and Fringes**—Salary and fringes, including an anticipated 2.82% state-mandated salary increase.

SIC-D—Salary and fringes for employees in the Curation Section of Information Technology and Data Services (see percent effort table in the “Introduction” section).

SIC-ND—None budgeted.

**Travel**—Transportation, per diem, and lodging.

SIC-D—Demobilization travel for one Curatorial Specialist.

SIC-ND—None budgeted.

**Supplies**—None budgeted.

**Shipping**—None budgeted.

**Communication**—None budgeted.

**Contractual Services**—None budgeted.

**Equipment**—None budgeted.

**Other Direct Costs**—None budgeted.

# DATA MANAGEMENT

## RESPONSIBILITIES

The following tasks specific to this appendix support the Data Management WBE.

- Carryout demobilization activities related to the photography laboratory on the *JOIDES Resolution*, including, packing, labeling, and documenting equipment and supplies for decommissioning, as well as storing or upgrading in preparation for use in Phase 2.
- Produce photo documentation of demobilization activities, as required.
- Prepare for all digital photography in Phase 2.
- Review existing and, if necessary, create new technical legacy documentation related to IODP-USIO Phase 1 operations, including all standard operating procedures.

## DATA MANAGEMENT BUDGET

Expense Category	SIC-D	SIC-ND	Total
Salaries and Fringes	7,695	0	7,695
Travel	7,782	0	7,782
Supplies	0	0	0
Shipping	0	0	0
Communication	0	0	0
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	0	0	0
<b>Total Data Management</b>	<b>15,477</b>	<b>0</b>	<b>15,477</b>

Funds for this WBE are budgeted as follows:

**Salaries and Fringes**—Salary, fringe, and sea pay, including an anticipated 2.82% state-mandated salary increase.

SIC-D—Salary and fringes for employees in the Databases and Archives Section of the Information Technology and Data Services (see percent effort table in the “Introduction” section).

SIC-ND—None budgeted.

**Travel**—Transportation, per diem, and lodging.

SIC-D—Three Imaging Specialists (one week each) for demobilization photographs and one for demobilization transit.

SIC-ND—None budgeted.

**Supplies**—None budgeted.

**Shipping**—None budgeted.

**Communication**—None budgeted.

**Contractual Services**—None budgeted.

*Equipment*—None budgeted.

*Other Direct Costs*—None budgeted.

# PUBLICATIONS

## RESPONSIBILITIES

The following tasks specific to this appendix support the Publications WBE.

### Graphics

- Provide yeoperson support to assist with demobilization activities on the *JOIDES Resolution*.

## PUBLICATIONS BUDGET

Expense Category	SIC-D	SIC-ND	Total
Salaries and Fringes	4,978	0	4,978
Travel	225	0	225
Supplies	0	0	0
Shipping	0	0	0
Communication	0	0	0
Contractual Services	0	0	0
Equipment	0	0	0
Other Direct Costs	0	0	0
<b>Total Publications</b>	<b>5,203</b>	<b>0</b>	<b>5,203</b>

Funds for this WBE are budgeted as follows:

**Salaries and Wages**—Salary, fringe, and sea pay, including an anticipated 2.82% state-mandated salary increase.

SIC-D—Salary, fringe, and sea pay for Publication Services employees (see position and percent effort table in the “Introduction” section).

SIC-ND—None budgeted.

**Travel**—Transportation, per diem, and lodging.

SIC-D—Yeoperson travel for demobilization of the riserless vessel after Expedition 312.

SIC-ND—None budgeted.

**Supplies**—None budgeted.

**Shipping**—None budgeted.

**Communication**—None budgeted.

**Contractual Services**—None budgeted.

**Other Direct Costs**—None budgeted.