COLLEGES AND UNIVERSITIES RATE AGREEMENT

EIN: 1430653611A1
DATE: 12/16/2013

ORGANIZATION:
Washington University in St. Louis
Campus Box 1034
700 Rosedale
Saint Louis, MO 63130-4899
FILING REF.: The preceding agreement was dated 02/24/2010

The rates approved in this agreement are for use on grants, contracts and other agreements with the Federal Government, subject to the conditions in Section III.

SECTION I: Facilities And Administrative Cost Rates

<table>
<thead>
<tr>
<th>RATE TYPES:</th>
<th>FIXED</th>
<th>FINAL</th>
<th>PROV. (PROVISIONAL)</th>
<th>PRED. (PREDETERMINED)</th>
</tr>
</thead>
</table>

**EFFECTIVE PERIOD**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>FROM</th>
<th>TO</th>
<th>RATE(%) LOCATION</th>
<th>APPLICABLE TO</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRED.</td>
<td>07/01/2013</td>
<td>06/30/2014</td>
<td>52.00 On Campus</td>
<td>Organized Research</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2013</td>
<td>06/30/2014</td>
<td>44.00 On Campus</td>
<td>Instruction</td>
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<tr>
<td>PRED.</td>
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<td>06/30/2014</td>
<td>35.00 On Campus</td>
<td>Other Sponsored Activities</td>
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<td>06/30/2014</td>
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<td>Genome</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2014</td>
<td>06/30/2017</td>
<td>52.50 On Campus</td>
<td>Seq.Center</td>
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<tr>
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<td>Instruction</td>
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<td>06/30/2017</td>
<td>25.50 On Campus</td>
<td>Other Sponsored Activities</td>
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<tr>
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<td>Seq.Center</td>
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<tr>
<td>PRED.</td>
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<td>06/30/2017</td>
<td>24.00 Off Campus</td>
<td>Instruction</td>
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</tbody>
</table>
ORGANIZATION: Washington University in St. Louis
AGREEMENT DATE: 12/16/2013

<table>
<thead>
<tr>
<th>TYPE</th>
<th>FROM</th>
<th>TO</th>
<th>RATE(%)</th>
<th>LOCATION</th>
<th>APPLICABLE TO</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRED.</td>
<td>07/01/2013</td>
<td>06/30/2017</td>
<td>11.50</td>
<td>Off Campus</td>
<td>Genome</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Seq.Center</td>
</tr>
<tr>
<td>PROV.</td>
<td>07/01/2017</td>
<td>Until Amended</td>
<td></td>
<td></td>
<td>Use same rates and conditions as those cited for fiscal year ending June 30, 2017.</td>
</tr>
</tbody>
</table>

*BASE

Modified total direct costs, consisting of all salaries and wages, fringe benefits, materials, supplies, services, travel and subgrants and subcontracts up to the first $25,000 of each subgrant or subcontract (regardless of the period covered by the subgrant or subcontract). Modified total direct costs shall exclude equipment, capital expenditures, charges for patient care, student tuition remission, rental costs of off-site facilities, scholarships, and fellowships as well as the portion of each subgrant and subcontract in excess of $25,000.
ORGANIZATION: Washington University in St. Louis

AGREEMENT DATE: 12/16/2013

SECTION II: SPECIAL REMARKS

TREATMENT OF FRINGE BENEFITS:

FICA & Retirement Annuity are specifically identified to each employee and are charged individually as direct costs. All other fringe benefits are charged using a rate(s). Over/under recoveries from actual costs are adjusted in current or future periods. The directly claimed fringe benefits are listed below:

TREATMENT OF PAID ABSENCES

Vacation, holiday, sick leave pay and other paid absences are included in salaries and wages and are claimed on grants, contracts and other agreements as part of the normal cost for salaries and wages. Separate claims are not made for the cost of these paid absences.

OFF-CAMPUS DEFINITION: For all activities performed in facilities not owned by the institution and to which rent is directly allocated to the project(s), the off-campus rate will apply. Actual costs will be apportioned between on-campus and off-campus components. Each portion will bear the appropriate rate.

Fringe Benefits:

Disability Insurance
Worker's Compensation
Life Insurance
Unemployment Insurance
Health Insurance
Non-Dependent Employee Tuition Remission
Mass Transit Passes
Health Savings Account (Employer contribution $400 per employee)

Equipment Definition -
Equipment means an article of nonexpendable, tangible personal property having a useful life of more than one year and an acquisition cost of $5,000 or more per unit.

Your next proposal based on actual costs for the fiscal year ending 06/30/16 is due in our office by 12/31/16.
ORGANIZATION: Washington University in St. Louis
AGREEMENT DATE: 12/16/2013

SECTION III: GENERAL

A. LIMITATIONS:
The rates in this agreement are subject to any statutory or administrative limitations and apply to a given grant, contract or other agreement only to the extent that funds are available. Acceptance of the rates is subject to the following conditions: (1) Only costs incurred by the organization were included in its facilities and administrative costs as finally accepted; such costs are legal obligations of the organization and are allowable under the governing cost principles; (2) The same costs that have been treated as facilities and administrative costs are not claimed as direct costs; (3) Similar types of costs have been accorded consistent accounting treatment; and (4) The information provided by the organization which was used to establish the rates is not later found to be materially incomplete or inaccurate by the Federal Government. In such situations the rate(s) would be subject to renegotiation at the discretion of the Federal Government.

B. ACCOUNTING CHANGES:
This Agreement is based on the accounting system purported by the organization to be in effect during the Agreement period. Changes to the method of accounting for costs which affect the amount of reimbursement resulting from the use of this Agreement require prior approval of the authorized representative of the cognizant agency. Such changes include, but are not limited to, changes in the charging of a particular type of cost from facilities and administrative to direct. Failure to obtain approval may result in cost disallowances.

C. FIXED RATES:
If a fixed rate is in this Agreement, it is based on an estimate of the costs for the period covered by the rate. When the actual costs for this period are determined, an adjustment will be made to a rate of a future year(s) to compensate for the difference between the costs used to establish the fixed rate and actual costs.

D. USE BY OTHER FEDERAL AGENCIES:
The rates in this Agreement were approved in accordance with the authority in Office of Management and Budget Circular A-21, and should be applied to grants, contracts and other agreements covered by this Circular, subject to any limitations in A above. The organization may provide copies of the Agreement to other Federal Agencies to give them early notification of the Agreement.

E. OTHER:
If any Federal contract, grant or other agreement is reimbursing facilities and administrative costs by a means other than the approved rate(s) in this Agreement, the organization should (1) credit such costs to the affected programs, and (2) apply the approved rate(s) to the appropriate base to identify the proper amount of facilities and administrative costs allowable to these programs.

BY THE INSTITUTION:
Washington University in St. Louis

__________________________
Barbara A. Feiner

__________________________
Vice Chancellor for Finance

__________________________
January 17, 2014

ON BEHALF OF THE FEDERAL GOVERNMENT:

DEPARTMENT OF HEALTH AND HUMAN SERVICES

__________________________
Arif Karim

__________________________
Director, Division of Cost Allocation

__________________________
12/16/2013

__________________________
HHS REPRESENTATIVE: Narendra Gandhi

__________________________
Telephone: (214) 767-3261

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