COLLEGES AND UNIVERSITIES RATE AGREEMENT

EIN: 1560532129A1
DATE: 06/27/2013
ORGANIZATION: Duke University
FILING REF.: The preceding agreement was dated
American Tobacco Campus
05/17/2012
Box Number 104137
Durham, NC 27708

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: INDIRECT 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>
<tbody>
<tr>
<td>EFFECTIVE PERIOD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TYPE</td>
<td>FROM</td>
<td>TO</td>
<td>RATE(%) LOCATION</td>
<td>APPLICABLE TO</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2009</td>
<td>06/30/2010</td>
<td>56.00 On-Campus</td>
<td>Org Rsch (A)</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2010</td>
<td>06/30/2013</td>
<td>57.00 On-Campus</td>
<td>Org Rsch (A)</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2009</td>
<td>06/30/2013</td>
<td>28.50 Off-Campus</td>
<td>Org Rsch (B) (C)</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2009</td>
<td>06/30/2013</td>
<td>26.00 Off-Campus</td>
<td>Org Rsch (D)</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2009</td>
<td>06/30/2010</td>
<td>25.00 Rsch Vessels</td>
<td>Org Rsch (E)</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2010</td>
<td>06/30/2013</td>
<td>27.00 Rsch Vessels</td>
<td>Org Rsch (E)</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2009</td>
<td>06/30/2010</td>
<td>56.00 On-Campus</td>
<td>Instruction</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2010</td>
<td>06/30/2013</td>
<td>57.00 On-Campus</td>
<td>Instruction</td>
</tr>
<tr>
<td>PROV.</td>
<td>07/01/2013</td>
<td>Until Amended</td>
<td>Use same rates and conditions as those cited for fiscal year ending June 30, 2013.</td>
<td></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.

(A) Includes Marine Lab
(B) Includes GCRC and VA Hospital
(C) Adjacent to Durham Campus - within 50 miles
(D) Remote to Durham Campus - outside 50 miles
(E) MTDC base excludes fuel costs
ORGANIZATION: Duke University
AGREEMENT DATE: 6/27/2013

SECTION I: FRINGE BENEFIT RATES**

<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>FIXED</td>
<td>7/1/2013</td>
<td>6/30/2014</td>
<td>24.30</td>
<td>All</td>
<td>Exempt Employees</td>
</tr>
<tr>
<td>FIXED</td>
<td>7/1/2013</td>
<td>6/30/2014</td>
<td>17.70</td>
<td>Medical Clr.</td>
<td>House Staff / Post-Docs</td>
</tr>
<tr>
<td>FIXED</td>
<td>7/1/2013</td>
<td>6/30/2014</td>
<td>25.00</td>
<td>All</td>
<td>Non Exempt Employees</td>
</tr>
<tr>
<td>FIXED</td>
<td>7/1/2013</td>
<td>6/30/2014</td>
<td>7.70</td>
<td>All</td>
<td>Temporary Services</td>
</tr>
<tr>
<td>FIXED</td>
<td>7/1/2013</td>
<td>6/30/2014</td>
<td>7.70</td>
<td>All</td>
<td>Students Taxable</td>
</tr>
<tr>
<td>FIXED</td>
<td>7/1/2013</td>
<td>6/30/2014</td>
<td>8.80</td>
<td>All</td>
<td>PhD Students</td>
</tr>
<tr>
<td>PROV.</td>
<td>7/1/2014</td>
<td>Until amended</td>
<td></td>
<td></td>
<td>Use same rates and conditions as those cited for fiscal year ending June 30, 2014.</td>
</tr>
</tbody>
</table>

** DESCRIPTION OF FRINGE BENEFITS RATE BASE:
Salaries and wages.
SECTION II: SPECIAL REMARKS

TREATMENT OF FRINGE BENEFITS:

The fringe benefits are charged using the rate(s) listed in the Fringe Benefits Section of this Agreement. The fringe benefits included in the rate(s) 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. Grants or contracts will not be subject to more than one F&A cost rate. If more than 50% of a project is performed off-campus, the off-campus rate will apply to the entire project.
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Fringe Benefits include: FICA, Retirement, Medical Care, Disability Insurance, Group Life Insurance, Survivor's Benefits, Fringe Benefits Administration, Child Care, Workers' Compensation and Unemployment Insurance.

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.

APPLICATION OF INDIRECT COST RATES TO DOD CONTRACTS/SUBCONTRACTS:

In accordance with DFARS 2231.303, no limitation (unless waived by the institution) may be placed on the reimbursement of otherwise allowable indirect cost rates incurred by an institution of higher education under a DOD contract awarded on or after November 30, 1993, unless the same limitation is applied uniformly to all other organizations performing similar work. It has been determined by the Department of Defense that such limitation is not being uniformly applied. Accordingly, the following rates do not reflect the application of the 26% limitation on administrative indirect costs imposed by OMB Circular A-21.

PRED. 07/01/09 to 06/30/10 58.5% On-Campus Orgn. Rsch. (A)
PRED. 07/01/10 to 06/30/13 59.5% On-Campus Orgn. Rsch. (A)
PRED. 07/01/09 to 06/30/13 31.0% Off-Campus Orgn. Rsch. (B)(C)
PRED. 07/01/09 to 06/30/13 28.5% Off-Campus Orgn. Rsch. (D)
PROV. 07/01/13 to Until Amended Use same rates and conditions as those cited for fiscal year ended June 30, 2013.

This Rate Agreement updates the Fringe Benefits only.
ORGANIZATION: Duke University
AGREEMENT DATE: 6/27/2013

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 cost pools 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 reconsideration 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 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-31, 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 allocable to these programs.

BY THE INSTITUTION:

Duke University

[Signature]

James D. Luther

[Name]

AVP Finance

[Title]

7/2/2013

(DATE)

ON BEHALF OF THE FEDERAL GOVERNMENT:

DEPARTMENT OF HEALTH AND HUMAN SERVICES

[Agency]

[Darryl W. Mayes]

[Signature]

[Name]

Deputy Director, Division of Cost Allocation

[Title]

6/27/2013

(Date)

[HHS REPRESENTATIVE: Steven Zuraf]

[Telephone: (301) 492-4855]