COLLEGES AND UNIVERSITIES RATE AGREEMENT

EIN: 74-2652689

ORGANIZATION:
University of Arizona
University Services Building
888 N. Euclid Ave., Rm. 502F
Tucson, AZ 85721-0158

DATE: 05/05/2016
FILING REF.: The preceding agreement was dated
06/16/2015

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></td>
<td></td>
<td></td>
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</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>51.50 On-Campus</td>
<td>Organized Research</td>
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<tr>
<td>PRED.</td>
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<td>06/30/2015</td>
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<td>Organized Research</td>
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<td>PRED.</td>
<td>07/01/2015</td>
<td>06/30/2016</td>
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<td>Organized Research</td>
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<td>PRED.</td>
<td>07/01/2016</td>
<td>06/30/2018</td>
<td>53.50 On-Campus</td>
<td>Organized Research</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2013</td>
<td>06/30/2018</td>
<td>26.00 Off-Campus</td>
<td>Organized Research</td>
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<tr>
<td>PRED.</td>
<td>07/01/2013</td>
<td>06/30/2014</td>
<td>51.50 On-Campus</td>
<td>Instruction</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2014</td>
<td>06/30/2018</td>
<td>50.00 On-Campus</td>
<td>Instruction</td>
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<tr>
<td>PRED.</td>
<td>07/01/2013</td>
<td>06/30/2018</td>
<td>26.00 Off-Campus</td>
<td>Instruction</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/2013</td>
<td>06/30/2014</td>
<td>51.50 On-Campus</td>
<td>Other Sponsored Activities</td>
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<tr>
<td>PRED.</td>
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<td>06/30/2018</td>
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<td>Other Sponsored Activities</td>
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<tr>
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<td>07/01/2013</td>
<td>06/30/2018</td>
<td>26.00 Off-Campus</td>
<td>Other Sponsored Activities</td>
</tr>
</tbody>
</table>
ORGANIZATION: University of Arizona
AGREEMENT DATE: 5/5/2016

<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>PROV.</td>
<td>07/01/2018</td>
<td>Until</td>
<td>(1)</td>
<td>Amended</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 a portion of each subgrant and subcontract in excess of $25,000.

(1) Use same rates and conditions as those cited for fiscal year ending June 30, 2018.
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>7/1/2016</td>
<td>6/30/2017</td>
<td>34.90</td>
<td>All</td>
<td>UA Employees</td>
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<td>FIXED</td>
<td>7/1/2016</td>
<td>6/30/2017</td>
<td>26.10</td>
<td>All</td>
<td>Faculty Ancillary</td>
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<tr>
<td>FIXED</td>
<td>7/1/2016</td>
<td>6/30/2017</td>
<td>13.70</td>
<td>All</td>
<td>Classified Temporary</td>
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<tr>
<td>FIXED</td>
<td>7/1/2016</td>
<td>6/30/2017</td>
<td>1.70</td>
<td>All</td>
<td>Student Employees</td>
</tr>
<tr>
<td>FIXED</td>
<td>7/1/2016</td>
<td>6/30/2017</td>
<td>13.40</td>
<td>All</td>
<td>Graduate Assistants</td>
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</tbody>
</table>

** DESCRIPTION OF FRINGE BENEFITS RATE BASE:
Salaries and wages including vacation, holiday, sick leave pay and other paid absences.
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 for the costs of these paid absences are not made, except where vacation benefit leave is accrued and earned but unused at the termination of a project.

OFF-CAMPUS DEFINITION AND APPLICATION
The off-campus rate is applicable to those projects that are conducted in facilities not owned, leased or operated by the University, and for which facility rental costs are directly charged to the project and more than 50% of its salaries and wages are incurred at the off-campus rental facility. If a project is determined to be off-campus, it shall be considered wholly off-campus. Separate on and off-campus rates will not be used for a single project.

DEFINITION OF EQUIPMENT
Equipment is defined as tangible nonexpendable personal property having a useful life of more than one year and an acquisition cost of $5,000 or more per unit.

The following fringe benefits are included in the fringe benefit rate(s): FICA, WORKERS COMPENSATION, UNEMPLOYMENT COMPENSATION, LIABILITY INSURANCE, HEALTH/ACCIDENT/LIFE/DISABILITY INSURANCE (HALD), DEPENDENT CARE ASSISTANCE, RETIREMENT, RETIREE SICK PAY, TERMINATION LEAVE AND QUALIFIED TUITION REDUCTION PROGRAM FOR EMPLOYEES.

NEXT PROPOSAL DUE DATE
Your next indirect cost proposal based on your fiscal year ending 06/30/17, is due in our office by 12/31/17 and your next fringe benefits proposal based on fiscal year ending 06/30/16 is due by 12/31/16.
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 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 Title 2 of the Code of Federal Regulations, Part 200 (2 CFR 200), and should be applied to grants, contracts and other agreements covered by 2 CFR 200, 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:

University of Arizona

(SIGNATURE)

Gregg Goldman

(NAME)

Senior Vice President for Business Affairs and Chief Financial Officer

(TITLE)

05/19/2016

(DATE)

ON BEHALF OF THE FEDERAL GOVERNMENT:

DEPARTMENT OF HEALTH AND HUMAN SERVICES

(AGENCY)

Arif M. Karim - S

(SIGNATURE)

Arif Karim

(NAME)

Director, Cost Allocation Services

(TITLE)

5/5/2016

(DATE)

HHS REPRESENTATIVE: Jeanette Lu

Telephone: (415) 437-7820