NEGOTIATION AGREEMENT

INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA, CALIFORNIA 91125

The Staff Benefit rate contained herein is for use on grants, contracts and/or other agreements issued or awarded to the California Institute of Technology (Caltech) by all Federal Agencies of the United States of America, in accordance with the provisions and cost principles mandated by 2 CFR Part 200. The rate shall be used for forward pricing and billing purposes for Caltech’s Fiscal Year 2018. This rate agreement supersedes all previous rate agreements/determinations for Fiscal Year 2018.

Section I: RATES - TYPE: FIXED

<table>
<thead>
<tr>
<th>TYPE</th>
<th>FROM</th>
<th>TO</th>
<th>RATE</th>
<th>BASE</th>
<th>APPLICABLE TO</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed</td>
<td>10/1/17</td>
<td>9/30/18</td>
<td>27.00%</td>
<td>(a)</td>
<td>Organized Research (except JPL)</td>
<td>All</td>
</tr>
</tbody>
</table>

DISTRIBUTION BASE

(a) Total salaries and wages of faculty and staff (excluding graduate assistants) including vacation, holiday, and sick leave. (Leave consists of accrued paid leave for bi-weekly salary and hourly employees and actual paid leave for monthly employees).

SECTION II - GENERAL TERMS AND CONDITIONS

A. LIMITATIONS: Use of the rate set forth under Section I is subject to any statutory or administrative limitations and is applicable to a given grant, contract or other agreement only to the extent that funds are available and consistent with any and all limitations of cost clauses or provisions, if any, contained therein. Acceptance of the rate agreed to herein is predicated upon all the following conditions: (1) that no costs other than those incurred by the recipient/contractor were included in its indirect cost pool as finally accepted and that all such costs are legal obligations of the recipient/contractor and allowable under governing cost principles; (2) that the same costs that have been treated as indirect costs are not claimed as direct costs; (3) that similar types of costs, in like circumstances, have been accorded consistent accounting treatment; (4) that the information provided by the recipient/contractor, which was used as the basis for the
acceptance of the rate agreed to herein and expressly relied upon by the Government in negotiating the said rate, is not subsequently found to be materially incomplete or inaccurate.

B. ACCOUNTING CHANGES: The rate contained in Section I of this agreement is based on the accounting system in effect at the time this agreement was negotiated. Changes to the method(s) of accounting for costs, which affects the amount of reimbursement resulting from the use of this rate, require the written approval of the authorized representative of the cognizant negotiating agency for the Government prior to implementation of any such changes. Such changes include but are not limited to changes in the charging of a particular type of cost from indirect to direct. Failure to obtain such approval may result in subsequent cost disallowances.

C. FIXED RATES WITH CARRY-FORWARD PROVISIONS: The fixed rate contained in this agreement is based on estimates of the costs for FY 2018. When actual costs for this fiscal year are determined, adjustments will be applied to a subsequent rate negotiation to recognize the difference between the FY 2018 estimated costs used to establish the fixed rate and the negotiated actual FY 2018 costs.

D. CARRYFORWARD AMOUNTS: The fixed rate set forth in Section I is inclusive of the following estimated and final carry-forward amounts:

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2009 Final</td>
<td>($88,581)</td>
</tr>
<tr>
<td>FY 2015 Estimated</td>
<td>($115,736)</td>
</tr>
<tr>
<td>FY 2016 Estimated</td>
<td>($1,167,852)</td>
</tr>
<tr>
<td></td>
<td>($1,372,169)</td>
</tr>
</tbody>
</table>

( ) Denotes over-recovery

E. USE BY OTHER FEDERAL AGENCIES: The rate set forth in Section I hereof was negotiated in accordance with and under the authority set forth in 2 CFR Part 200. Accordingly, such rate shall be applied to the extent provided in such regulations to grants, contracts and other agreements to which 2 CFR Part 200 is applicable, subject to any limitations in part A of this section. Copies of this document may be provided by either party to other Federal agencies to provide such agencies with documentary notice of this agreement and its terms and conditions.
F. SPECIAL REMARKS: The Government's agreement with the rate set forth in Section I is not an acceptance of Caltech's accounting practices or methodologies. Any reliance by the Government on cost data or methodologies submitted by Caltech is on a non-precedence-setting basis and does not imply Government acceptance.

Accepted:
FOR THE CALIFORNIA INSTITUTE OF TECHNOLOGY:

SHARON E. PATTERSON
Associate Vice President for Finance and Treasurer

Date 5/16/18

FOR THE U.S. GOVERNMENT:

SHEA D. KERSEY
Contracting Officer

Date May 16, 2018

For information concerning this agreement contact:
Shea Kersey
Office of Naval Research

Phone: (703) 696-2055
E-mail: shea.kersey@navy.mil