NHERI Experimental Facility
University of Florida User Rates

NSF Award #1520843

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## 2020 User Rates for University of Florida NHERI Equipment and Staff

*Note: Rates are subject to change every revision period.*

### Academic User Rate

<table>
<thead>
<tr>
<th>Service Line</th>
<th>Unit</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) BLWT - Setup/Cleanup</td>
<td>Daily Rate</td>
<td>2080.00</td>
</tr>
<tr>
<td>2) BLWT - Operations</td>
<td>Daily Rate</td>
<td>1140.00</td>
</tr>
<tr>
<td>3) MAWLS/DFS - Setup/Cleanup</td>
<td>Daily Rate</td>
<td>1830.00</td>
</tr>
<tr>
<td>4) MAWLS/DFS - Operations</td>
<td>Daily Rate</td>
<td>2310.00</td>
</tr>
<tr>
<td>5) HAPLA - Setup/Cleanup</td>
<td>Daily Rate</td>
<td>1540.00</td>
</tr>
<tr>
<td>6) HAPLA - Operations</td>
<td>Daily Rate</td>
<td>800.00</td>
</tr>
<tr>
<td>7) SPLA - Setup/Cleanup</td>
<td>Daily Rate</td>
<td>1650.00</td>
</tr>
<tr>
<td>8) SPLA - Operations</td>
<td>Daily Rate</td>
<td>840.00</td>
</tr>
<tr>
<td>9) Planning of Experiment</td>
<td>Daily Rate</td>
<td>970.00</td>
</tr>
<tr>
<td>10) Machine Shop Equipment</td>
<td>Hourly Rate</td>
<td>24.00</td>
</tr>
<tr>
<td>11) Machine Shop Technician Labor</td>
<td>Hourly Rate</td>
<td>51.00</td>
</tr>
<tr>
<td>12) General Engineer Services</td>
<td>Hourly Rate</td>
<td>57.00</td>
</tr>
<tr>
<td>13) Instrumentation and Control Engineer</td>
<td>Hourly Rate</td>
<td>69.00</td>
</tr>
<tr>
<td>14) Research Scientist</td>
<td>Hourly Rate</td>
<td>76.00</td>
</tr>
<tr>
<td>15) Technical Assistant</td>
<td>Hourly Rate</td>
<td>32.00</td>
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### Commercial User Rate

<table>
<thead>
<tr>
<th>Service Line</th>
<th>Unit</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) BLWT - Setup/Cleanup</td>
<td>Daily Rate</td>
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<tr>
<td>2) BLWT - Operations</td>
<td>Daily Rate</td>
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</tr>
<tr>
<td>3) MAWLS/DFS - Setup/Cleanup</td>
<td>Daily Rate</td>
<td>2740.00</td>
</tr>
<tr>
<td>4) MAWLS/DFS - Operations</td>
<td>Daily Rate</td>
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<td>5) HAPLA - Setup/Cleanup</td>
<td>Daily Rate</td>
<td>2310.00</td>
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<tr>
<td>6) HAPLA - Operations</td>
<td>Daily Rate</td>
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<tr>
<td>7) SPLA - Setup/Cleanup</td>
<td>Daily Rate</td>
<td>2470.00</td>
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<tr>
<td>8) SPLA - Operations</td>
<td>Daily Rate</td>
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</tr>
<tr>
<td>9) Planning of Experiment</td>
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<tr>
<td>10) Machine Shop Equipment</td>
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<tr>
<td>11) Machine Shop Technician Labor</td>
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<tr>
<td>12) General Engineer Services</td>
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<tr>
<td>13) Instrumentation and Control Engineer</td>
<td>Hourly Rate</td>
<td>103.00</td>
</tr>
<tr>
<td>14) Research Scientist</td>
<td>Hourly Rate</td>
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</tr>
<tr>
<td>15) Technical Assistant</td>
<td>Hourly Rate</td>
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</table>
NHERI Service Line Descriptions

The following equipment and the Machine Shop will be included as part of the service lines of NHERI facility:

- **BLWT** – Boundary Layer Wind Tunnel
- **MAWLS** – Multi-Axis Wind Load Simulator (including the DFS – Dynamic Flow Simulator)
- **HAPLA** – High Airflow Pressure Loading Actuator
- **SPLA** – Spatiotemporal Pressure Loading Actuator

Description of services:

- **Planning of Experiment:**
  - Review of the experimental plan by the laboratory staff to assess the setup and operation needs of the tests
  - Scheduling the experiment based on equipment availability and planned test matrix
  - Development of a standard instrumentation plan and preparing the necessary data acquisition hardware/software
  - Development of a risk management and performance assurance plan
  - Planning for the safety requirements of the testing

- **Setup and Closeout:**
  - Installing models/specimens in the experimental apparatus
  - Standard instrumentation
  - Preliminary tests to ensure correct model/specimen installation and operational instrumentation
  - Removal of the model/specimen from experimental apparatus
  - Clean up
  - Data transfer to user and/or data repository

- **Operations:**
  - Running the experimental apparatus
  - Recording, saving, and transferring data
  - Adjusting settings and configurations as required by the test matrix
  - Ensuring safe operation of equipment

- **Machine Shop** activities are charged by the hour with an equipment rate and a technician labor rate:
  - Using end mills, lathes, drill presses, grinders, saws, and welders
  - Manufacturing and repairs of mechanical parts
  - Construction and modifications of models

- **General Engineer Services:**
  - Engineering services to for specimen/model design, including CAD work and design calculations as necessary

- **Instrumentation and Control Engineer:**
  - Specialized or extensive instrumentation and control services
  - Design and implementation of systems to support cyber-physical testing and automation controls for data collection

- **Research Scientist**
  - Research consulting by Ph.D. scientist on experimental conception, design, and implementation.
  - Data analysis/interpretation

- **Technical Assistant**
  - General manual labor

Note: Daily rates will be rounded to the nearest half day (e.g. less than four hours will be charged 0.5 day, more than four hours will be charged a full day).