### I. Team Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Member Type</th>
<th>Email</th>
<th>Contact Phone</th>
<th>Responsible for what part</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steve Peterson</td>
<td>Team Member</td>
<td><a href="mailto:steve.peterson@marin.edu">steve.peterson@marin.edu</a></td>
<td>415-497-0199</td>
<td>Welding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stephen Peterson</td>
<td>Team Member</td>
<td><a href="mailto:steve.peterson@marin.edu">steve.peterson@marin.edu</a></td>
<td>415-497-0199</td>
<td>Budget - Welding</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### II. Program Review Committee

<table>
<thead>
<tr>
<th>Name</th>
<th>Committee (Chairs)</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chris Schultz</td>
<td>Curriculum Committee Chair</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blaze Woodlief</td>
<td>Educational Planning Committee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>V-Anne Chernock and Erik Dunmire</td>
<td>Facilities Committee Co-Chairs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yolanda Bellisimo</td>
<td>Planning and Resource Allocation Co-Chair/Academic Senate President</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nick Chang</td>
<td>Planning and Resource Allocation Co-Chair/Instructional Equipment Committee Chair</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sara McKinnon and Becky Brown</td>
<td>Program Review Committee Chair and SLO Coordinators</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chris Schulz</td>
<td>Student Access and Success Committee Chair</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael Irvine</td>
<td>Tech Committee Chair</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### III. Vice President of Academic Affairs

<table>
<thead>
<tr>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nick Chang</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### IV. Board of Trustees President

<table>
<thead>
<tr>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eva Long</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Instructional Equipment
MACH-2010

This section will be filled out by faculty and reviewed by the Department Chair, the ARea Dean, the Instructional Equipment Committee, IPC and Budget. Please enter items that will be used over a period of semesters BY STUDENTS.. (Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests".

Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>100 Students</td>
<td>Over $200 Each</td>
<td>MACH</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
PC Computer to be dedicated to our new CNC Machining

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost</th>
<th>Tax</th>
<th>Shipping</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$1,200.00</td>
<td>$120.00</td>
<td>$50.00</td>
<td>$1,370.00</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
No

Item to be shared with the following Department/Program: (Include any shared expenses)
Yes

Do you have space for this equipment?
Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   PC Computer to be dedicated to our new CNC Machining.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>100 Students</td>
<td>Over $200 Each</td>
<td>MACH</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Printer and cart

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$300.00</td>
<td>$30.00</td>
<td>$20.00</td>
<td>$350.00</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Item to be shared with the following Department/Program: (Include any shared expenses)
Yes

Do you have space for this equipment?

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   To secure Computer and printer next to the CNC Machining.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   NO

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:
I. Technology/Software Requests

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

Priority: To Support: Category Discipline Area
01 0 Students Discipline-Related Software welding

Description and part number for ordering:
Google SketchUp Pro 8 with SpaceNavigator Standard for Students (Win) from JourneyEd

<table>
<thead>
<tr>
<th>Qty</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$109.99</td>
<td>$0.00</td>
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<td>$109.99</td>
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</tbody>
</table>

Type How often? College-wide Discipline-Specific
New One Time Open Lab Lab use

Item to be shared with the following Department/Program: (Include any shared expenses)

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   In addition, how many times have you requested this item, but you have not received it?
   B.

2. Is this software required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   No

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   This is CAD software that will allow students to plan and design class projects.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   This will benefit 80 students by allowing them to review and refine class project drawings and specifications.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   This will prepare the students for when they enter the industry and are required to read and implement design drawings.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Additional Justification for this item:

I. Technology/Software Requests
This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>100 Students</td>
<td>Online</td>
<td>MACH</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
SurfCam software installed on PC

<table>
<thead>
<tr>
<th>Qty</th>
<th>Unit Cost</th>
<th>Tax</th>
<th>Shipping</th>
<th>Total</th>
</tr>
</thead>
<tbody>
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<td>$10.00</td>
<td>$560.00</td>
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</table>

Type | How often? | College-wide | Discipline-Specific |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>New</td>
<td>One Time</td>
<td>Open Lab</td>
<td>Classroom use</td>
</tr>
</tbody>
</table>

Item to be shared with the following Department/Program: (Include any shared expenses)
Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   In addition, how many times have you requested this item, but you have not received it?
   SurfCam software installed on PC

2. Is this software required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   No

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:
Technology Requests

Part II : Hardware for Lab and Classroom

MACH-2010

I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<table>
<thead>
<tr>
<th>Priority:</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>100 Students</td>
<td>Computer</td>
<td>MACH</td>
</tr>
</tbody>
</table>

Description and part number for ordering:

Desk top computer

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$1,500.00</td>
<td>$150.00</td>
<td>$50.00</td>
<td>$1,700.00</td>
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</tbody>
</table>

Type

None

College-wide

None

Discipline-Specific

None

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

We need a computer to help students gain access to information services on-line.

Item to be shared with the following Department/Program: (Include any shared expenses)

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

In addition, how many times have you requested this item, but you have not received it?

A

Students need access to Service and Repair Information Data. We need to use the most current and up to date systems. The students need quick and reliable access to on-line data.

2. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Additional Justification for this item:

I. Technology Requests-Hardware for Lab and Classroom or other student use
This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>0 Students</td>
<td>Computer</td>
<td>Welding</td>
</tr>
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</table>

Description and part number for ordering:

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
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<td>$0.00</td>
<td>$0.00</td>
</tr>
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</table>

Type
New

Discipline-Specific
College-wide
Open Lab
Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

Item to be shared with the following Department/Program: (Include any shared expenses)

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   In addition, how many times have you requested this item, but you have not received it?
   B. This has been requested 5 times

2. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   No

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   This is required for students to access and review class projects including shop blueprints, industry standards and safety regulations, equipment and industry updates.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   Student access will improve by having profesional and peer review of ongoing projects and assignments. 80 students will benifit from this request. It is required to accomidate existing students who bring in CAD drawings for their class projects. This will attract new students.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   This is important for SLO's in preperation for entering and succeeding in the welding industry.
6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Outcomes will be measured by the success of students passing welding certification tests and entry into the industry. CAD is becoming more and more relevant in welding design and production. This request reflects the changes in the welding profession.

Additional Justification for this item:
Department Chair Comments
MACH-2010

1. Please make any comments on the Five Pathways, Student Access and Success, Facilities, Curriculum and SLO sections.

All five pathways are addressed in Machine Metals Technology. Students have the option of following one of the multiple pathways when going through the program. Most of the students choose the career path while others choose to further their education at a four year institution. There are also students in the program taking courses in the program for cultural enrichment or life long learning. Basic skills such as math, measurement, critical thinking and problem solving are a key component of the Machine Metals curriculum. There are no barriers influencing student access and success but the Machine Metals program does need to continually work towards updating equipment and curriculum to meet real world work conditions. The facilities are well maintained with good working equipment. The building had a new roof put on it last year. There may be a need to address some of the heating and lighting systems in the future.

2. Please comment on the instructional equipment requests, technology requests and other instructional materials requests sections. Please comment especially on any specific priorities without which this program cannot function.

There is a need to update equipment and continuously maintain equipment to stay current with industry standards. As the facility and machinery age, it may require additional funds to keep the current machinery operating.

3. Please comment on the faculty and staff sections.

The Machine Metals program has one full time instructor and three part time instructors. The full time instructor teaches machining and the part time instructors teach the welding courses. The Machine Metals program is running smoothly because the full time and part time instructors work cooperatively.

4. Other comments