

## PROTOTYPING SUPPORT FUND UTILIZATION FORM

King Fahd University of Petroleum & Minerals  
Technology Advancement & Prototyping Center (TAPC)

1. Title of your Research/Innovation Activity: \_\_\_\_\_

2. Please describe your Research/Technology Development/ Innovation:

<i>*Note: Attach additional supporting document if deemed necessary</i>
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3. Status of your research/Innovation/Technology Development:

<input type="checkbox"/> Basic Research <input type="checkbox"/> Collaboration research with Industry <input type="checkbox"/> Ideation Stage <input type="checkbox"/> Concept Validation Stage <input type="checkbox"/> Concept Development & Testing stage <input type="checkbox"/> Prototyping Stage <input type="checkbox"/> Product Development Stage <input type="checkbox"/> Market Testing & Validation Stage <input type="checkbox"/> Commercialization Stage
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4. What services would you like to avail from TAPC:

<input type="checkbox"/> 3D CAD Designing <input type="checkbox"/> 3D Printing <input type="checkbox"/> PCB Fabrication <input type="checkbox"/> 3D Scanning <input type="checkbox"/> Reverse Engineering <input type="checkbox"/> Finishing/ Post-Processing <input type="checkbox"/> Concept Validation (Research/Commercialization)
<i>*Note: Please refer to <b>Appendix A</b> for list of materials and hardware available</i>

5. Personal details:

<b>Full Name:</b>			
<b>KFUPM ID:</b>		<input type="checkbox"/> KFUPM Employee <input type="checkbox"/> KFUPM Student	
<b>KFUPM Dept./Center:</b>		<b>Dept Head/ Chairman Sign:</b>	
<b>KFUPM Email Id:</b>			
<b>Contact No.</b>	<b>Office:</b>	<b>Mobile:</b>	
<b>Signature:</b>		<b>Date:</b>	

### FOR TAPC OFFICE USE

<b>TAPC cost estimation for the service (Saudi Riyals):</b>	
<b>Program Director's Decision:</b>	<input type="checkbox"/> Approved <input type="checkbox"/> Not Approved
<b>Comments:</b>	
<b>Program Director's Signature:</b> _____	<b>Date:</b> _____

## APPENDIX A

### Materials available for FDM & FFF 3D Printing:

- ABS
- ASA
- PC
- PC-ABS
- PLA
- PC-ISO
- PPSF
- NYLON 6
- NYLON 12
- NYLON 12 CF
- ANTERO 800NA
- ANTERO 840CN03
- ULTEM 9085
- ULTEM 1010
- ST-130

### Materials available for SLA 3D Printing:

- Clear Resin
- Black Resin
- Tough Resin
- White Resin
- Gray Resin
- Castable Resin
- Flexible Resin

### Materials available for PCB Fabrication:

- FR4 single sided with 5 microns cladding
- FR4 double sided with 5 microns cladding
- FR4 single sided with 18 microns cladding
- FR4 double sided with 18 microns cladding
- FR4 single sided with 35 microns cladding
- FR4 double sided with 35 microns cladding
- FR4 Flexible single sided with 5 microns cladding

### Electro-Mechanical Hardware:

- myRIO
- myRIO Kit
- Embedded System Kit
- Robotics Kit
- Raspberry Pi
- Texas Instrument board
- Launch Pad board
- Analog Discovery Kit
- Data Acquisition system
- CompactRIO
- Smart Camera for Image Processing Applications
- RF system

### Hardware for Reverse Engineering:

- Handy scan Portable 3D Scanner
- Quality control and inspection
- Reverse engineering

**\*Note: If the required hardware is not mentioned above, you can mention the hardware and its estimated cost in the detailed description document.**