

**3D Bio-printer**

**Photo of Instrument:**



<b>Instrument Name</b>	3D Bio-printer
<b>Instrument Model &amp; Serial No.</b>	BioX Gen 3 & 223250
<b>Instrument Make</b>	Cellink
<b>Category of Instrument</b>	Bioscience and Technology
<b>Description of Instrument</b>	A 3D bio-printer for cell biologists, tissue engineers and biomedical researchers
<b>Instrument Description and Major Specifications (This Specifications Limited to Major 5)</b>	<p><b>Build Volume:</b> 130mm x 90 mm x 70 mm</p> <p><b>Pressure Range:</b> 0-200 kPa</p> <p><b>Temperature:</b> (i) Printbed: 4-65°C (ii) Printhead: Amb-250 °C</p> <p><b>UV-Sterilization:</b> UV-C (275nm) 20mW output</p> <p><b>Supported File Formats:</b> .gcode, .sti</p>
<b>Application of Instrument (Limited to Major 4 or 5)</b>	Tissue engineering
<b>Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions</b>	<p><b>Quantity:</b> 5ml (depends on the print model)</p> <p><b>Sample Type:</b> Viscous fluid (500-8000mPa.S)</p> <p><b>Pre-preparation:</b> The sample should be sterile</p> <p><b>User instructions:</b> Should reveal the cell used in the ink</p>
<b>Types of Analysis / Testing</b>	Fabrication
<b>Faculty In-Charge Name / Email / Contact</b>	<p>Dr. Baiju G Nair</p> <p><a href="mailto:bgnair@nitc.ac.in">bgnair@nitc.ac.in</a></p> <p>0495-288 5472</p>
<b>Technical Staff Name / Email / Contact</b>	<p>Sandhyadevi S M</p> <p><a href="mailto:sandhyadevism@nitc.ac.in">sandhyadevism@nitc.ac.in</a></p> <p>Sooraj V S</p> <p><a href="mailto:soorajvs@nitc.ac.in">soorajvs@nitc.ac.in</a></p> <p>Jishnu Sudhakaran</p> <p><a href="mailto:Jishnusudhakaran@nitc.ac.in">Jishnusudhakaran@nitc.ac.in</a></p>

## **Department of Bioscience and Engineering, NIT Calicut**

<b>Location of Instrument</b>	Functional Biomaterials and Tissue Engineering Laboratory, BSED
<b>Other Details</b>	

### **User Charges:**

<b>S.NO.</b>	<b>Type of Analysis/ Testing</b>	<b>Internal - within Department of NITC</b>	<b>Internal - Other Departments NITC</b>	<b>External Academic Educational Institutes</b>	<b>National Labs</b>	<b>Industry</b>
1	Fabrication	0/-	500/- per hour	1500/- per hour	1500/- per hour	2000/- per hour

### **Present Slot Booking and Payment Work Flow:**