Welcome to
Prototyping Lab
of AIC T-Hub

Where innovation meets
state-of-the-art infrastructure

About **T-Hub**

The world's largest innovation hub

T-Hub empowers startups and fosters global innovation. It accommodates up to 1,000 startups and provides essential resources, guiding them from ideation to scaling.

> T-Hub has supported **2000+ startups**, positioning Hyderabad as a global catalyst for innovation.

AIC T-Hub Foundation

A collaborative initiative between Atal Innovation Mission (AIM) and T-Hub

AIC T-Hub Foundation fosters a vibrant culture of innovation throughout India. AIC T-Hub supports pioneering startups in healthcare, sustainability, mobility, semiconductors and space tech. Join us on an exciting journey as we explore cutting-edge innovations emerging from the AIC prototyping lab, empowering entrepreneurs to drive transformative change.

Who Can Access?

Student Innovators/ Entrepreneurs

Corporates

Startups

MSMEs

Innovators/ Entrepreneurs

...and others

Dual Nozzle
3D Printer

01

Model: Voltera HT
Make: Fracktal Works
Location: T-Hub
Applications: Automotive, aerospace, building construction, and medical applications

About the equipment: Dual nozzle 3D printers are an advanced type of 3D printing technology that revolutionizes the additive manufacturing process. These printers are equipped with two separate extruders, allowing for the simultaneous printing of multiple colors or materials in a single print job.

Who can benefit: Startups, innovators, students, companies, and institutions.

SLA
3D Printer

02

Model: Zortrax Inkspire
Make: Zortrax
Location: T-Hub
Applications: Automotive, aerospace, manufacturing, dental, education, jewellery, and entertainment

About the equipment: SLA 3D printers utilise laser technology to solidify resin layers, creating detailed objects in prototyping, jewellery, and medical modelling, followed by cleaning and curing for a smooth finish.

Who can benefit: Startups, innovators, students, companies, and institutions.

CO_2 Laser
Cutting Machine

03

Model: Accucut1212
Make: SIL
Location: T-Hub
Applications: Woodworking, acrylic and plastic cutting, paper and cardboard cutting, prototyping, and model making

About the equipment: A CO_2 laser cutter uses a carbon dioxide laser to cut and engrave various materials such as wood, acrylic, and metal. It offers precision, speed, and versatility for industrial and artistic applications.

Who can benefit: Startups, innovators, students, companies, and institutions.

Desktop
Milling Machine

04

Model: SRM 20
Make: Roland
Location: T-Hub
Applications: Prototyping, jewellery making, engraving, and model making

About the equipment: Desktop milling machines are computer-controlled tools used for cutting and shaping materials, primarily for prototyping, small-scale production, and hobbyist projects due to their versatility, affordability, and high precision.

Who can benefit: Startups, innovators, students, companies, and institutions.

Vinyl Printer
& Cutter

05

Model: BN-20A
Make: Roland
Location: T-Hub
Applications: Prototyping, sign making and apparel decoration

About the equipment: The vinyl printer and cutter offers a flexible and efficient solution for creating custom graphics, making them essential for businesses, hobbyists, and professionals in the signage, advertising, and apparel industries.

Who can benefit: Startups, innovators, students, companies, and institutions.

3D
Scanner

06

Model: EIN Scan SP
Make: Shinning 3D
Location: T-Hub
Applications: Reverse engineering, inspection, healthcare, archaeology, construction and architecture

About the equipment: A 3D scanner captures the shape of objects using lasers or light to create detailed 3D models, facilitating design, reverse engineering, and quality control.

Who can benefit: Startups, innovators, students, companies, and institutions.

Scroll **Saw**

07

Model: DW788
Make: Dewalt
Location: T-Hub
Applications: Intarsia, fretwork, marquetry, toy making, and decorative ornaments

About the equipment: Scroll saws are precision tools for intricate woodworking, featuring a fine blade that moves up and down rapidly.

Who can benefit: Startups, innovators, students, companies, and institutions.

Band **Saw**

08

Model: LB1200F
Make: Makita
Location: T-Hub
Applications: Woodworking, metalworking, lumbering, and foam cutting

About the equipment: A band saw is a power tool used for cutting curves and shapes in wood and metal. It consists of a continuous band of toothed metal that rotates around two wheels to make precise cuts. Band saws are commonly used in woodworking and metalworking.

Who can benefit: Startups, innovators, students, companies, and institutions.

Bench Top **Drill Machine**

09

Model: TBH
Make: Proxxon
Location: T-Hub
Applications: Drilling holes, reaming, countersinking, sanding, and polishing

About the equipment: A benchtop drill machine, or drill press is a stationary power tool used for drilling holes in various materials. It consists of a motor, a spindle, and a worktable mounted on a column. Benchtop models are smaller and designed to be mounted on a workbench, offering precision and stability for drilling operations.

Who can benefit: Startups, innovators, students, companies, and institutions.

List Of Equipments/Consumables

01. Dual Nozzle 3D Printer
02. SLA 3D Printer
03. CO2 Laser Cutting Machine
04. Desktop Milling Machine (PCB Machine)
05. Vinyl Printing & Cutter
06. 3D Scanner
07. Scroll Saw
08. Band Saw
09. Bench Top Drill Machine
10. Digital Vernier Caliper
11. Micrometer
12. Steel Rule 300mm
13. Steel Rule 600mm
14. Degree Protractor
15. Inside Caliper
16. Outside Caliper
17. Engineering Square
18. Meter Tape 30m
19. Measuring Tape 3m
20. Measuring Tape 5m
21. Spirit Level
22. Drill Machine
23. Cordless Drill
24. Jig Saw
25. Hot Air Gun
26. Table Saw Blower
27. Cordless Screw Driver
28. Cordless Vacuum Cleaner
29. Random Orbit Sander
30. Vacuum Cleaner
31. Dremel 4000
32. Rubber Grip Hacksaw
33. Junior Hacksaw
34. Hacksaw Mini
35. Claw Hammer Steel Shaft
36. Ball Pein Hammer
37. Rubber Mallet
38. Ring Spanner Set 12pcs
39. Open End Spanner Set 12pcs
40. Combination Spanner Set 8pcs
41. Allen Key Set 10pcs
42. Allen Key Set 12pcs
43. Combination Plier
44. Long Nose Plier
45. Circlip Straight
46. Circlip Bent
47. Diagonal Cutter
48. Wire Stripper
49. Adjustable Spanner
50. Pipe Wrench
51. Laser Module
52. LDR Module
53. 4×4 Matrix Keypad
54. ystJoick Module
55. Active Buzzer (Big)
56. Active Buzzer (Small)
57. Motor Driver
58. Sound Playback Module
59. BO Motors
60. Vibrating Motor
61. Capacitive Touch Switch
62. IR Sensors (Obstacle Sensors)
63. Triple Axis Magnetometer
64. Humidity Sensor
65. SpO2 And Heart Rate Sensor
66. GSR Sensor
68. Blood Pressure Sensor
67. Pressure Cuff For The Sensor
68. Zigbee Module
69. ECG Sensor (AD8232)
70. ECG Biosensor
71. ARM Cortex-M4F MCU 32-Bit Embedded Evaluation Board
72. PIC Development Board
73. Dremel 4000 Accessories Kit
74. Jigsaw Blade
75. Resin 500ml
76. ESD Workstation
77. Mechanical Workbench Storage
78. Component Organizer
79. Tool Trolley
81. Soldering Rework Station
81. Digital Multimeter
82. Digital Oscilloscope
83. Function Generator
84. Bench Top Multimeter
85. DC Electronic Load 300W
86. EMI/EMC Preset Solution
87. Spectrum Analyzer
89. Isolated Transformer
90. LISN (Line Impedance Stabilization Network)
91. Transient Limiter
92. EMI Near Field Probe Kit
93. DC Block
94. Solar Irradiance Sensor
95. Thermal Image Camera
96. Tachometer
97. Power Analyzer
98. LCR Meter
99. Digital Clamp Meter
100. PCB Prototyping Machine With Pick And Place
101. Arduino UNO R3 - Original
102. Arduino NANO
103. Arduino Mega
104. Raspberry Pi Model 4B
105. ESP8266 NodeMCU
106. ESP32 Development Board
107. Voltage Regulator Module
108. Mini Micro Submersible Water Pump
109. Piezoelectric Plate
110. 8×8 LED Matrix Module Bluetooth
111. 7 Segment LED Display
112. GSM/GPRS/GPS Module
113. MQ-2 MQ-3 MQ-4 MQ-5 MQ-7
114. Ultrasonic Sensor Module
115. Triple Axis Accelerometer
116. PIR Motion Detector Module
117. Pulse Rate Heart Sensor
118. Relay Module
119. Soil Moisture Sensor
120. Touch Sensor
121. Rain Drop Sensor
122. Flex Sensor
123. Temperature Sensor
124. Force Pressure Sensor
125. Colour Recognition Sensor
126. Water Flow Sensor
127. Sound Sensor
128. IR Sensor Array For Line Following
129. RFID Reader-Tags
130. RF Modules Tx & Rx 315 MHz ASK
131. Stepper Motor With Driver Board
132. Servo Motor 360 Rotation
133. Servo Motor 180 Rotation
134. Metal Gear Servo Motor (180° Rotation)
135. Solder Wire 100grm
136. Solder Flux
137. 830 Points Solderless Breadboard
138. 400 Points Solderless Breadboard
139. Copper Clad Board Single Side
140. Copper Clad Board Double Side
141. Zero PCB Board

Note—Consumables and spare parts charges are separate, and the AIC T-Hub team will coordinate with the startup. It is recommended that you bring your own spare parts and consumables.

Join AIC Prototyping Lab

Gain access to cutting-edge resources, expert guidance, and a collaborative community dedicated to innovation and research.
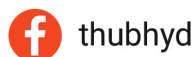
Membership Fee

Students: ₹25,000/- year
Others: ₹35,000/- year

...excluding GST

Become a member today and be a part of the future of technology and innovation. To book the AIC Prototyping Lab, scan the QR code below and dive into a world of innovation!

NITI Aayog

Supported By

ATAL INNOVATION MISSION

ATAL INCUBATION CENTER

t-hub

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Limited seats available...