



LIVICON

ROADSHOW

D January 11, 2023

9 IIT, Patna

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RESEARCH FACILITY AND INSTRUMENT LABORATORY



FOUNDATION FOR IN NOVATORS IN SCIENCE AND TE CHNOLOGY INDIAN INSTITUTE OF FECHNOLOGY PATNA BIHAR, INDIA, 801106

About FIST

We here at Foundation for Innovators in Science and Technology (FIST) strongly believe that by giving plan, advancement, and research pioneering exercises to a conceptualized thought can prompt a discovery or monetarily plausible plan of action.

Foundation for Innovators in Science and Technology (FIST) at IIT Patna is developed under the NIDHI-TBI initiative of the Ministry of Science & Technology, Department of Science & Technology, Government of India. It is registered as a Section 8 company under the Ministry of Corporate Affairs.

It administers a technology business incubator (TBI) that provides 'Start to scale' support for technology-based entrepreneurship and facilitates the conversion of research ideas into entrepreneurial ventures. It focuses on the incubation of ideas in the areas, including, but not limited to



Our Vision

To enable budding entrepreneurs to nurture and translate innovative ideas to create economically viable and commercially competitive technology

Areas of Expertise

- * Entrepreneurship and Start-up Support
- ✤ Lab Infrastructure
- * Research Projects & Consultancies
- * Design, Testing, And Development
- * Skill Development Training

Facilities

CNC Vertical Milling Centre

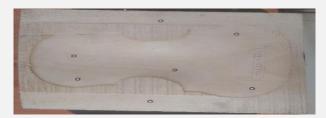
CNC SINGLE SPINDLE 3 AXES VERTICAL MILLING MACHINE

Brand: Haas CNC, Model: VF-2 Travel-X axis- 762 mm Y axis- 406 mm Z axis- 508 mm **Operations- Face milling, End Milling,**

Side, and face milling, Drilling, Taping, Profile Machining. Material- Metal and non-metal







Abrasive Waterjet Cutting Machine

Brand – Omax, Model- GLOBALMAX 1508

MACHINE DIMENSIONS

Footprint (without pump, controller) : 5'3" x 9'2" (1.60 m x 2.78 m)





: 3,100 lb (1,406 kg)
: 7'4" (2.2 m)
: 5,290 lb (2,400 kg
: 400 Kg.

WORK ENVELOPE

X-Y Cutting Travel: 2"Z-Axis Travel: 5"Table Size: 2"

: 2'7" x 5'0" (800 mm x 1,525 mm) : 5" (125 mm) : 2'10" x 5'5" (864 mm x 1,645 mm)

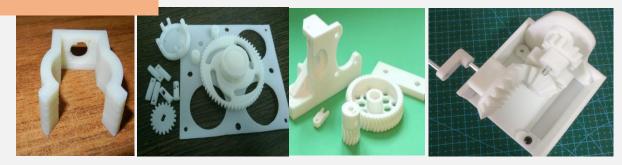


3D Printing machine

Model-: Aeqon 400 V3 **Build Size** : 400mm X 300mm X 300mm Nozzle Diameter : 0.4mm - 0.8mm (optional) **Printing Speed** : 200mm/s Variable as per material profile) Accuracy : 80-250 Micron Max Extruder : 305°C Temperature Dimensions : L- 730mm X W- 670mm X H- 900mm : USB, Wi-FI, Ethernet Connectivity



Sample



3D Scanner

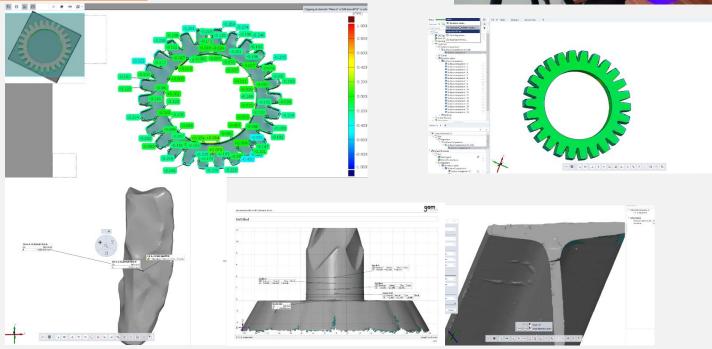
GOM 3D Scanner

Model- GOM Scan 1 (400) Points per scan : 6 million Point distance : 0.129 mm Measuring area : 400 x 250 mm² Working distance : 500 mm Light source : LED Software : GOM Inspect

Application: 3D printing, Reverse engineering & manufacturing, Virtual display or 3D models. Research and education, Art and heritage, Design, Healthcare

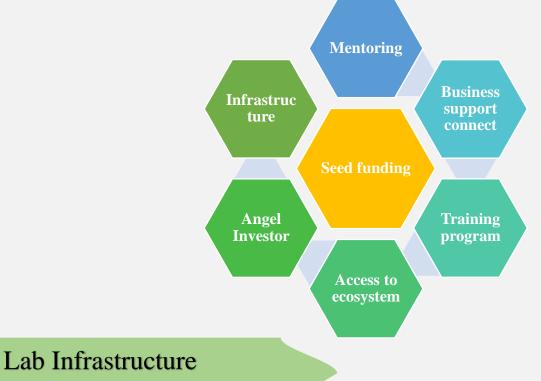


Sample

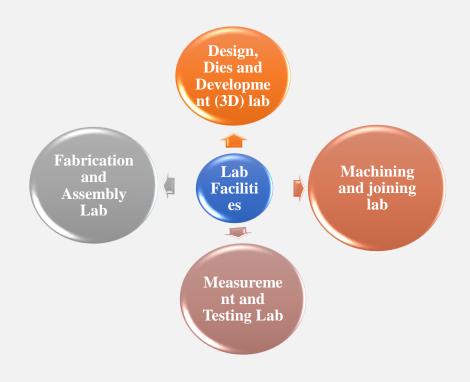


Entrepreneurship and Start-up Support

FIST IIT Patna administers a technology business incubator (TBI) that provides 'Start to scale' support for technology-based entrepreneurship and facilitates the conversion of research ideas into entrepreneurial ventures in various aspects of the startup journey.



State-of-the-art laboratories, containing computers, internet, and seating space to ensure complete facilities for research and development.



FIST, IIT Patna offers access to various technical facilities and equipment to the students, researchers, faculty members, and industry fraternity to support their needs on a chargeable basis. If you are interested in avail of the facilities available at FIST such as machining, design and development facilities, 3D Printing, etc. FIST, IIT Patna provides cost-effective R&D and consultancy services.

S.No.	Facility	Internal Users, Amount (Rs.)			External Users, Amount (Rs.)
1	3D Scanner	Research Users, Amount (Rs.)	Sponsored project Users, Amount (Rs.)	Consultancy users, Amount (Rs.)	3000 /hr
	Scanning of Part (STL file)	1200 /hr	1500 /hr	2000 /hr	
	Scanning + 3d inspection report	Scanning time/hr (1200) + 3D inspection (1200)	Scanning time/hr (1500) + 3D inspection (1500)	Scanning time/hr (2000) + 3D inspection (2000)	Scanning time/hr (3000) + 3D inspection (3000)
	Scanning+ 2d Inspection	Scanning time/hr (1200) + 50/dimension	Scanning time/hr (1500) + 70/dimension	Scanning time/hr (2000) + 80/dimension	Scanning time/hr (3000) + 90/dimension
	Scanning + Modelling (RE)	Scanning time/hr (1200) + Modelling time/hr (700)	Scanning time/hr (1500) + Modelling time/hr (700)	Scanning time/hr (2000) + Modelling time/hr (700)	Scanning time/hr (3000) + Modelling time/hr (700)
2	VMC Machining	600.00 (Per hr.)	720.00 (Per hr.)	960.00 (Per hr.)	1200 (Per hr.)
3	TIG MIG Welding	300 (Per hr.)+ Consumable	400 (Per hr.)+ Consumable	600 (Per hr.)+ Consumable	750 (Per hr.)+ Consumable
4	3D Printing	10 /gm. (Material ABS, PLA)	15 /gm. (Material ABS, PLA)	20 /gm. (Material ABS, PLA)	25 /gm. (Material ABS, PLA)
5	Abrasive waterjet cutting	1000/ hr.	1200/ hr.	1500/ hr.	2000/ hr.



For more details visit our website Website: <u>https://fistiitp.com/</u> Twitter: <u>https://twitter.com/FISTIITP</u> Linkedin: <u>https://www.linkedin.com/in/fist-iit-patna-7227b9255/</u> Facebook: <u>https://www.facebook.com/FISTIITP/</u>



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