

## Request for expressions of interest from property owners

LMETB invites owners of suitable premises in Louth or Meath to submit expressions of interest to rent premises to it for use as a training and demonstration facility for 3D construction printing and for storage purposes.

Please see required and desirable features of the premises below.

Responses including plans, pictures, the address and availability of the premises and how it fits the features below should be sent to education@lmetb.ie on or before noon on Friday, 13<sup>th</sup> October.

Overall	Details
Internal	<ul> <li>c 400m² required.</li> <li>Minimum clear height of 5.2m required for the installation and operation of the printing equipment</li> <li>The equipment is normally bolted to the floor via chemical anchor and would require a reinforced concrete floor with a minimum slab depth of 200mm</li> </ul>
	<ul> <li>Facilities</li> <li>Equipment and operations</li> <li>Training</li> <li>Office</li> <li>Storage</li> <li>Ancillary space including bathroom, kitchen and canteen</li> </ul>
External	C 350m² required.     In addition a minimum of fifteen dedicated car parking spaces should be available directly adjacent to the facility or in the direct vicinity  Facilities     External plant     Silos     Materials storage     Loading

Statutory permissions	Zone
	The facility would ideally be located in a
	planning zone which permits high end
	technology/manufacturing and major
	campus style office based employment
	Premises
	Ideally the premises has a prior
	established use consistent with the
	above and training has previously been
	undertaken at the location
	Ideally the premises should have fire
	certificate and DAC consistent with the
	above
Location	The premises would ideally be located on the
	periphery of a major town with good transport
	links
Accessibility	The premises should ideally meet Universal
	Design Guidelines

3D Construction Printer	Requirements
1. To accommodate a BOD2 3-2-2 3D	Area
construction printer fitted with	• Print area of 32 m <sup>2</sup> required.
advanced hose management system	(X=7.2m, Y=4.6m, Z (height)=3m)
	<ul> <li>Installation area required.</li> </ul>
	(X=13.5m, Y=9.05m, Z (height)=5.2m)
	Power
	Power Requirements
	(32A 3-phase 400 V)
	Facility/Storage
	Chemical Storage Requirements
	Tool storage
	(3m x 4m)
	General curing and component storage
	(5 m x 10 m)

Ancill	ary Equipment	Requirements
Concr	ete System	
1.	To accommodate a COBOD concrete mini batch / mixing plant	<ul> <li>Plant footprint of 43 m²</li> <li>(5.22 m x 8.25m)</li> </ul>
2.	To accommodate a 3 m3 cement silo	<ul><li>Loading access</li><li>(3m x 8m minimum)</li></ul>
3.	To accommodate a COBOD concrete	
	Piston Pump 2022 Model	Power
		Mixer Power Requirements
		(32A 3-phase 400 V)
		Pump Power Requirements
		(63A 3-phase 400V)
		Water
		Mixer Water Requirements
		(3-5 bar water supply)
		Facility/Storage
		Material Storage
		(5m x 5m – sand)
		(5m x 5m – aggregates)
		(3m x 1m – cement *weather proof)
Morta	r System	
1.	To accommodate a 19 tonne dry	Area
	mortar silo	Plant footprint of 25 m2
		(5 m x 5 m x 5 m)
2.	To accommodate a MAI Specialist	Power
	Concrete Printing Mortar Pump	Mortar Silo Power Requirements
		(32A 3-phase 400 V)
		Mortar pump Power Requirements
		(32A 3-phase 400 V)
		Water

	<ul> <li>Mortar pump Water Requirements</li> <li>(2-3 bar water supply)</li> </ul>
Material Handling	Requirements
To accommodate a Manitou MT733  Easy Telescopic loader + GP Bucket	Plant storage area (3m x 3m)
Eddy relegeopie louder : dr Bucket	Traint storage area (Sin x Sin)

Traini	ng Area	Requirements
1.	Equipment Training / Observation area	Equipment Training/Observation Area Facilities
		Minimum 50 m <sup>2</sup> Training area adjacent
2.	General Training Support facilities	to 3DCP printer to accommodate up to
		12 no. Attendees
3.	Practical Training Area	
4.	General Welfare	General Training Support Facilities
		Centrally located AV equipment in
		Equipment Training Area to display
		curriculum content and to compliment
		live demonstrations
		Level Access to all learning areas
		Practical Training Area Facilities
		Designated Signing in and Induction
		Area
		PPE storage and changing area
		First Aid box
		Classroom learning
		Minimum capacity for 15 no. People
		(including trainers)
		AV display with appropriate power
		outlets
		Conferencing equipment to facilitate
		remote training (from prospective
		specialist / guest trainers)
		General Welfare Facilities
		Min 1 no. Unisex Accessible Toilet and
		Washbasin

	•	Min 1 no. Unisex Shower and a
		Changing Area
	•	Kitchen area with Dishwasher and
		instant Hot Water
	•	Canteen area adjacent to kitchen area
		with minimum seating capacity for 15
		People (15 sqm)

Facility Security and Detection	Requirements
Security System	Security System
	Monitored Security system
2. Fire detection system	Video Security Surveillance system with
	30 day recording playback capacity
	Fire Detection
	L2 Addressable Fire Detection system

Storage	
	Storage space additional to that
	required for the above would be
	desirable