

About Frontier Center for Organic Materials (FROM)

Frontier Center for Organic Materials (FROM) is an international science innovation center promoting integration from different research fields and cooperation with industry, government and university under one roof. This building is aiming to create a new integrated field "Organic System", propel the fundamental material research to industrialization, form world's first international research center and drive regional revitalization. Researchers from various fields like organic materials, device, printing process, biotechnology and design system will move into this institution where is expected to be a communication space, especially the "Future Center" in the 2nd floor, to accelerate interaction of people without limitation of industry, university and research fields.

(1) Structure: Steel Frames, 7 stories

(2) Floor Area: 9,888.33 m²

(3) Facilities and Equipment

1) Clean Room (1st Floor)

Cleanliness Factor: 1,000 and 10,000

Clean room floor area: 350m²

2) Future Center (2nd Floor)

◇ Lounge

Projector, Poster bulletin board, White board

◇ MIRAI Hall

Projector (300 inch), Chairs (150 sets)

◇ Exhibition Corner

Digital signage, Exhibition booth

◇ VR Studio

Immersive and many-sided stereoscopic vision system (CAVE)

3) Research Fellow Office (3rd Floor ~ 7th Floor)

Total 30 rooms (15m²/room)

(*There are 6 rooms on each floor for the collaborators.)

4) Laboratory (3rd Floor ~ 7th Floor)

Laboratory on each floor has an area around 720m².

5) Equipment

◇ High-resolution and high-precision image forming system

◇ Roll-to-roll printer for bio-sensing devices

◇ High-precision test printing system

◇ Nano imprinter Lithography

◇ Immersive and many-sided stereoscopic vision system (CAVE)

◇ Time of flight secondary ion mass spectrometer: TOF-SIMS

◇ OPV deposition system

◇ Vapor deposition system for combinatorial deposition

(*A part of the equipment above will be used in common.)



Outward Appearance of Frontier Center for Organic Materials



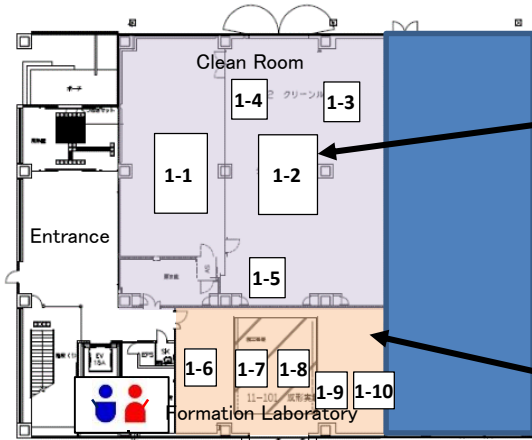
2F Future Center Lounge

>> For more information, please contact [Institute of Organic Materials](http://www.organic.yz.yamagata-u.ac.jp)
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Frontier Center for Organic Materials (FROM)

【Floor Guide】

1F



- 1-1 High-resolution and high-precision image forming system
- 1-2 Roll-to-roll printer for bio-sensing devices
- 1-3 High-precision test printing system
- 1-4 Vacuum deposition system
- 1-5 Atomic layer deposition system

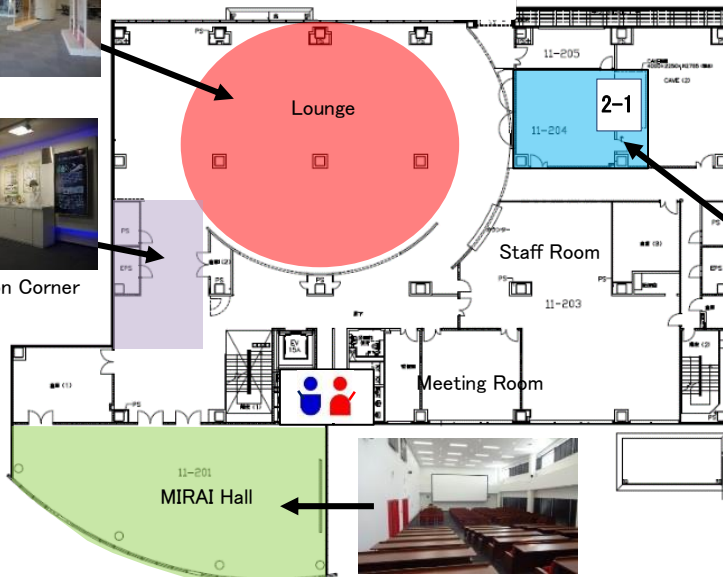


- 1-6 Twin screw extruder
- 1-7 High precision optical glass mold press machine
- 1-8 Injection molding machine specialized for LSR molding
- 1-9 Nano imprinter
- 1-10 Noncontact surface shape measuring device



Exhibition Corner

2F

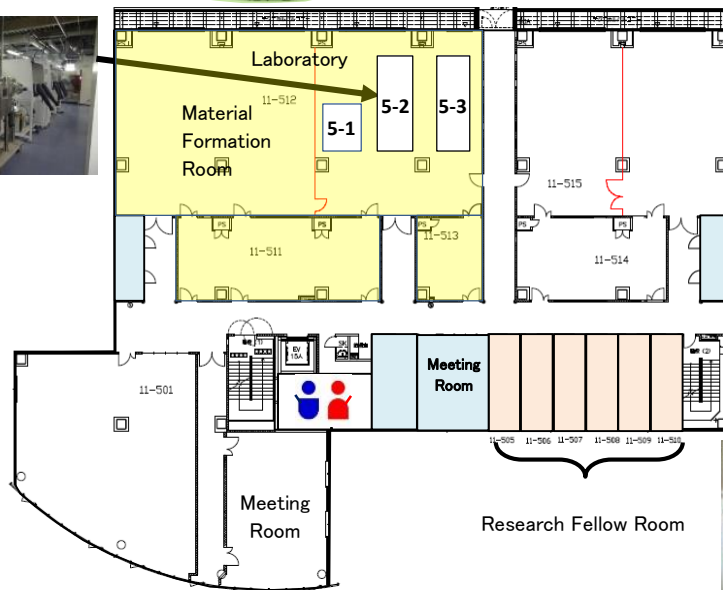


VR Studio

- 2-1 Immersive and many-sided stereoscopic vision system (CAVE)



5F



- 5-1 Time of flight secondary ion mass spectrometer: TOF-SIMS
- 5-2 OPV deposition system
- 5-3 Vapor deposition system for combinatorial deposition



Research Fellow Room