

## RESEARCH CENTRES AND LABORATORIES

**Laboratories**

The University continuously puts in resources to develop various laboratories according to the needs for course development, teaching and research. The various laboratories are listed as follows:

**List of Laboratories****Biomedical Sciences Laboratories**

- Animal Facility
- Bioimaging Core
- Drug Development Core
- Genomics and Bioinformatics Core
- Histopathology Core
- Induced Pluripotent Stem Cells (iPSC) Core
- Metabolomics Core
- Proteomics Core
- Single Cell & Gene Expression Analysis Core
- Transgenic and Knockout Core

**Ministry of Education Joint Key Laboratory**

- Sun Yat-Sen University – University of Macau Ministry of Education Joint Key Laboratory

**State Key Laboratories**

- The State Key Laboratory of Analog and Mixed-Signal VLSI
- The State Key Laboratory of Quality Research in Chinese Medicine

**Science and Technology Laboratories**

- Analog Electronics Laboratory
- Antenna and Electromagnetic-Wave Laboratory
- Automation Laboratory
- Automotive Engineering Laboratory
- Big Data Processing Laboratory
- Biomedical Engineering Laboratory
- Biomedical Imaging Laboratory
- Biotechnology Laboratory
- Chemistry Laboratory
- Chromatographic Analysis Laboratory
- Computational Biology and Bioinformatics (CBBio) Laboratory
- Computational Electromagnetics Laboratory
- Computational Engineering Laboratory
- Computer Aided Civil Engineering Laboratory
- Computer Graphics and Multimedia Laboratory
- Control Laboratory
- Construction Materials Laboratory
- Corrosion & Metallography Laboratory
- Crystal Growth and Atomic Force Microscopy Laboratory
- Data Analytics and Collaborative Computing (DACC) Laboratory

- 
- Data-Driven Intelligent Systems Laboratory
  - Distributed Systems Laboratory
  - Dynamics and Monitoring Laboratory
  - E-Commerce Technology Laboratory
  - E-Home Healthcare Engineering Laboratory
  - Electric Power Engineering Laboratory
  - Electrical Machines and Drives Laboratory
  - Electricity Utilization Laboratory
  - Electron Microscopes Laboratory
  - Electronics Workshop
  - Embedded Systems Laboratory
  - Environmental Biotechnology Laboratory
  - Environmental Engineering Laboratory
  - Extraction and Purification Laboratory
  - Geomechanics Laboratory
  - Geo-modelling & Wave Laboratory
  - Geotechnical Engineering Laboratory
  - Green Energy Materials Laboratory
  - Hydraulics Laboratory
  - Image Processing and Pattern Recognition Laboratory
  - Industrial Engineering Laboratory
  - Information Intelligent Visual Perception Laboratory
  - Innovative Design and Integrated Manufacturing Laboratory
  - Knowledge and Data Engineering Laboratory
  - Laser and Optics Laboratory
  - Laser Processing Laboratory
  - Machine Workshop
  - Mathematics Laboratory 1
  - Mathematics Laboratory 2
  - Measurement and Instrumentation Laboratory
  - Mechanical Characterisation and Testing Laboratory
  - Mechatronics Laboratory
  - Medical Information Laboratory
  - Metallography Laboratory
  - Microelectronics Laboratory
  - Motion Capture Laboratory
  - Natural Language Processing & Portuguese-Chinese Machine Translation Laboratory
  - Pharmaceuticals Laboratory
  - Pharmacology Laboratory
  - Physical Science and Engineering Teaching Laboratory
  - Physics Laboratory
  - Phytochemistry Laboratory
  - Quality Control Laboratory
  - Quantum Device Fabrication/Testing Laboratory
  - Scanning Electron Microscope (SEM) Laboratory
  - Sensor-based Cooperative Robotics Laboratory
  - Sensor Network and Communication Laboratory
  - Signal Processing and Communication Laboratory
  - Smart and Micro/Nano Systems Laboratory
  - Smart Environment & Cybernetics System Laboratory
  - Smart Grid Laboratory
  - Software Engineering Laboratory
  - Software Technology Laboratory
  - Solar Energy Laboratory
  - Spectroscopy Laboratory
  - Stochastic Mechanics Laboratory
-

- Strength of Materials Laboratory
- Structures Laboratory
- Surveying Laboratory
- Thermal Engineering Laboratory
- Transportation Engineering Laboratory
- Tribology Laboratory
- Vision and Image Processing Laboratory
- Visual Information Processing Laboratory
- Wireless Technology Laboratory

**Other Laboratories**

- Accounting and Information Management Laboratory I
- Behavioral Research Laboratory
- Black Box Theatre
- Cognitive Studies Laboratory
- Conference Room/SI Lab
- Creative Media Lab
- Currency Museum
- Finance and Economics Laboratory
- Hospitality Laboratory
- ISCG Gaming Laboratory
- Kinesiology Laboratory
- Linguistics Laboratory
- MICE Laboratory
- Mock Hotel Room
- Social Sciences Survey Lab
- Thomson Reuters Trading Room