



General: 40 m2 with several electric isolated lines including triphase. Building compressed air installation. 2 active optical tables with stand-off instrumentation shelves.

Photonics:

- Several sets of fiber-coupled infrared lasers:
 - Discrete Mode, VCSELs, with direct RF connector input (7-pin butterflies) and standard (14-pin butterflies, TO).
 - High performance laser diode controllers.
 - High performance CW tunable laser.
 - Femtosecond laser (80 fs).
- Probe station for photonic and electronic chip characterization up to 40 GHz.
- Electro-Optical phase and amplitude modulators with different characteristics.
- Other fiber-coupled components:

- Couplers, isolators, MEMs variable and fixed attenuators, low frequency photodiodes...
- High performance Optical Spectrum Analyzer (visible and infrared).
- High bandwidth photodiodes (50 GHz and 100 GHz).
- Several optical power meters.
- Erbium Doped Fiber Amplifiers (medium and high power).
- Fiber connectorization station
- Fiber splicing station

RF:

- High performance RF synthesizers (20 GHz and 70 GHz).
- Vector Network Analyzer 40 GHz
- Electrical Spectrum Analyzer 26.5 GHz with RF preamplifier for high dynamic range and ultra low noise measurements.
- Portable Electrical Spectrum Analyzer
- Medium and high power amplifiers
- Other RF components:
- Couplers, power dividers, mixers, attenuators...

THz:

- THz pulsed system.
- THz CW system.
- Photoconductive antennas for pulsed and CW systems.
- THz CMOS camera 1 kpixel.
- Compact THz emitter 290 GHz.
- GDD THz receivers.

Electronics, mechanics, others:

- High performance Lock-In amplifier
- Oscilloscopes
- Low frequency signal generators
- Temperature, humidity and light datalogger.
- DACs and ADC systems.
- Power supplies

- Electrically controllable X-Y high resolution mechanical stages
- Soldering station
- Manual XYZ milling machine
- 3D printer
- NI RIO systems, NI FPGAs, NI myRIO