



# Tel Aviv University micro and nano central characterization and fabrication facility



## Equipment

### Electron microscopes

- Environmental Scanning Electron Microscope (ESEM - FEI Quanta 200 FEG)
- Field Emission High Resolution Scanning Electron Microscope (HRSEM - Jeol JSM-6700)

### E-beam Lithography

- E-beam lithography (Raith 150)
- SEM with e-beam writing attachment (Jeol 6400 + Elphy)

### AFM/STM

- AFM (Molecular Imaging PicoSPM II)
- AFM (Veeco NanoScope IV MultiMode)
- Variable Temperature Ultra-High Vacuum STM/AFM System (Omicron)
- AFM in a glove box (NT-MDT SMENA-A)

### Optical microscopy

- Metallurgical Confocal microscope (Olympus LEXT)
- Measurement microscope (Hisomet II)

### Photolithography

- Contact lithography (Suss MA6, MJB3)
- Direct laser writing & Photomask preparation (Heidelberg Instruments DWL-66)

### Thin film deposition/etching/characterization

- E-beam deposition (VST, Edwards 306)
- Thermal evaporation (VST)
- RF sputtering (MRC)
- DC sputtering (Penta Vacuum)
- RIE Etching (Unaxis)
- DRIE etching (Unaxis)
- Wet etching
- Wet and dry Cleaning

### Measurements

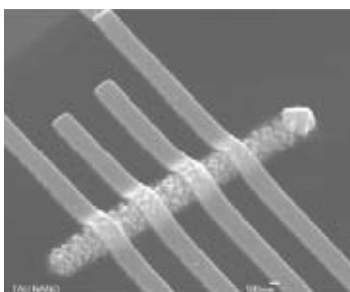
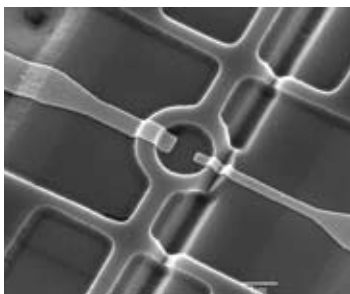
- Profile/Step height (Tencor, Veeco)
- XRF (Jordan Valley)
- Spectroscopic Ellipsometer (Woollam M2000DUV)
- Spectroscopic Reflectometer (Sentech FTP)

### Backend

- Dicing (K&S 982)
- Wire Bonding (K&S)

## Missions

- To provide Tel Aviv University users with access to state of the art micro and nano fabrication and characterization equipment.
- To train, consult and help users to operate the equipment and to develop suitable protocols.
- To provide services to external academic users as well as industrial users.



## Contact

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## Customers

### Companies

- Al Cielo Ltd.
- Applied Materials Israel
- Cell Kinetics (Medisel)
- CI Systems
- Compass
- EI-Mul Technologies
- EL-OP Ltd.
- Flamingo Electronics
- IAI
- Nova
- NOVAMEDES
- Orbotech
- RAFAEL
- TeraOP
- Tessera Israel
- TEVET

### Academia

- Bar Ilan University
- Ben Gurion University
- Hebrew University
- Technion
- Weizmann Institute