

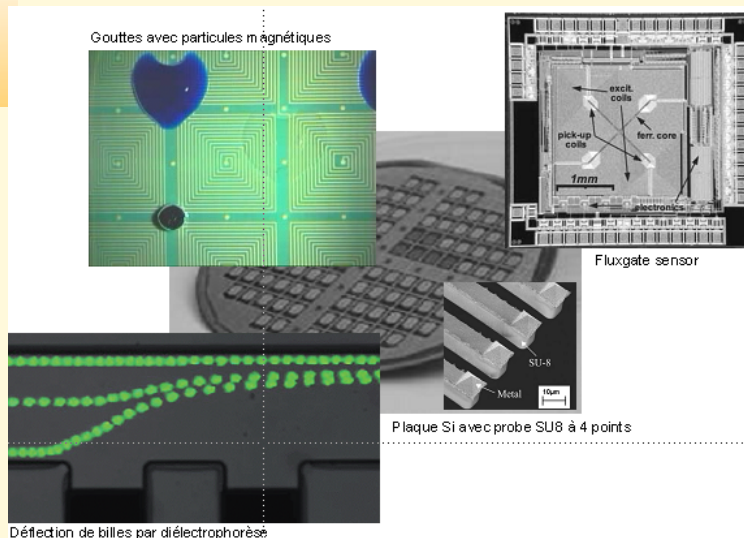
## Laboratory of Microsystems (4 teams)

10 professors, senior researchers, 35 PhD students, post-docs

**Research fields: Micro/nanofluidics, magnetic sensors and beads, stencil lithography**

### Research topics in Micro and NanoSystems

- Micro/nanofluidics for cells, DNA, proteins
- Dielectrophoretic cell manipulation
- Bioimpedance and neural probes
- Patch clamp and biocalometry
- Magnetic beads manipulation
- Nanopores and stencil lithography
- Inkjet printing of functional polymers
- Hall, fluxgate and NMR sensors



*Different devices made by our 4 groups*

### Technology

- 430 m<sup>2</sup> clean rooms class 100 & 1000
- UV, laser, FIB and e-beam lithography
- Porous Si
- Si and SOI wet and dry etch
- HF vapour etcher
- Electroplating
- Chemical-mechanical polishing
- Excimer laser

### Design, simulation & characterization tools

- ANSYS, Comsol Multiphysics
- SEM, AFM
- Ellipsometer
- Spectro-reflectometer
- Optical and mechanical profilometers
- Optical microscopes

### Laboratory of Microsystems

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