



# GEMaC

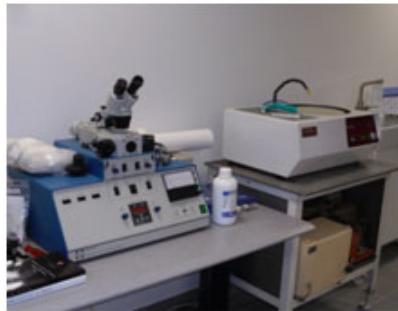
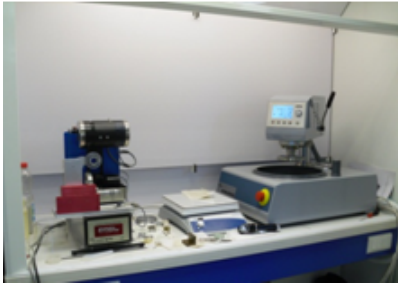
Groupe d'Étude  
de la Matière Condensée

## MATERIAL SHAPING

### Shaping and polishing workshop

Our equipment includes:

- » 3 ESCIL diamond wire saws: Well vertical 3241:
  - » wire diameter: 0.3 mm (diamond 60  $\mu\text{m}$ )
  - » 0.17 mm (diamond 30  $\mu\text{m}$ )
  - » goniometric heads: 1 axis – 2 axes – 3 axes
  - » translation: micrometric table
  
- » 2 manual polishing machines with variable speed (0 to 125 rounds/min)
- » 1 automatic polishing machine LAM PLAN MM 8052 (without product provider)
- » 1 ionic thinner PIPS (Precision Ion Polishing System) GATAN



## Target fabrication workshop

Fabrication of a broad variety of ternary oxides is made according to the ceramic materials preparation process: mixing/grinding, pressing and sintering at high temperature. The workshop is equipped with several precision scales, a planetary ball mill Retsch PM100, a 25 ton uniaxial press, 2 vertical sintering furnaces Pyrox that can operate up to 1 600 °C and a horizontal furnace that can perform annealing up to 1 200 °C.

