

### **International Office Dept tasks:**

- Management of EU funded Projects
- Training on Project Management
- Training on technical and financial reporting
- Support in the financial and administrative related tasks
- European and international funding programme analysis
- Preparation and submission of European and international project proposal
- Financial Analysis/Budget Preparation/Impact Assessment in Proposals
- Support in Preparation and submission of deliverables and reports during the execution of international projects
- Networking/contacts development

### **Advances Polimers Dept tasks:**

- Extrusion, mold-injection, blow-extrusion of films and blow-injection of bottles with several materials.
- Support to tasks of new syntheses of polymers (mainly PET)
- Support to characterization of polymers including:
  - DSC (differential scanning calorimetry)
  - TGA (thermogravimetric analysis)
  - GPC (Gel Permeation Chromatography)
  - MFI (Melt Flow Index)
  - IV (intrinsic viscosity)
  - Gas permeability (O<sub>2</sub>, CO<sub>2</sub>)
  - Water Vapor permeability

- Mechanic properties
- Impact resistance properties
- Etc.

### **Renewable Energies Dept tasks:**

- Photovoltaics: New solar technologies: organic polymer solar cells and dye sensitized solar cell, most of them fabricated with printing techniques. Luminescent solar concentrators: Down Shifting and Up Conversion. Integration of solar cell, different technologies, for several applications. Stability artificial test under different condition, pre-homologation studies.
- Energies storage: Elaboration of the devices from electrodes preparation to the complete device, but not so much on the preparation of material. The next four years projects planning is relating to the lithium air technology, the elaboration of microsupercap devices, and ionic liquids.
- Thermoelectricity: New materials: Intrinsic conductive polymers as thermoelectrical devices. Elaboration of thermoelectrical generator, cooler, heaters. Characterization and integration in different thermal application.
- CO2 capture and valuation: Technology research of CO2 capture by chemical reactions. The objective is to generate high value added products based on materials from renewable sources.
- Fuel cells: Integrating a fuel cell in a electrochemical cell for the treatment of wastewater. The aim is to use the hydrogen generated during the process for production of electrical energy.

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