VALORIZATION OF AGROINDUSTRIAL RAW MATERIALS FOR THE PRODUCTION OF ADHESIVES FOR THE WOOD INDUSTRY

Advanced Nanocomposites Research Group
# PROPOSAL

## 1. Replacement of urea-formaldehyde resins (UF).
- Used for the production of particleboards and plywood.
- Non-renewable material.
- Formaldehyde was declared a carcinogen by the World Health Organization (WHO).

## 2. Industrialization of agricultural products.
- Development of protein-based bioadhesives (soybean and blood meal).
- Improvement of the mechanical properties by the incorporation of clay nanoparticles.
- Increase of raw materials added value.

## 3. Promotion of sustainable industries.
- Production of environmentally friendly products.
- Use of waste, or by-products, of the agricultural industry.
CURRENT PARTNERS OF THE ADVANCED NANOCOMPOSITES RESEARCH GROUP

PUBLIC COLLABORATORS

PRIVATE COLLABORATORS

INTI Plásticos
Centro de Investigación y Desarrollo Tecnológico para la Industria Plástica

MASISA®

CETMIC
Centro de Tecnología de Recursos Minerales y Cerámica

Grupo Tapebicuá

UNSAM
Instituto de Investigación E Ingeniería Ambiental

ICIDCA
Instituto Cubano de Investigaciones de los Derivados de la Caña de Azúcar
# SEARCH OF PARTNERS

## R&D in Timber and Wood
- Universities or Research Institutes with experience in particleboards, plywood or composite wood panels.

## R&D in Adhesives and Bioadhesives
- Universities or Research Institutes with experience in protein based adhesives.

## Private Collaborators
- Wood Companies with an innovative profile and interested in the development of sustainable and eco-friendly industries.
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