



European Network of Materials Research Centres

NAME: INEGI

INSTITUTION: INEGI – INSTITUTO DE ENGENHARIA MECÂNICA E GESTÃO
INDUSTRIAL

COUNTRY: PORTUGAL

Profile :

INEGI is an interface Institution between University and Industry, oriented to the activities of Research and Development, Innovation and Technology Transfer. It was founded in 1986, as an organization to strengthen the liaison between the Department of Mechanical Engineering and Industrial Management (DEMEGI) of the University of Porto and industry. This strong link to DEMEGI is still maintained today, being one of the Institute's main knowledge sources with its large range of scientific and technologic competences. Projects with Companies account for more than 50% of the Institute's turnover. Being a non-profit private association and recognized as being of public utility, INEGI is currently considered an active agent playing a significant role in the development of the Portuguese industry, and in the transformation of its competitive model.

INEGI's scientific and technologic competences cover different areas such as renewable energies, composite materials, energy and industrial management, noise and vibration analysis, industrial automation, instrumentation and control, materials reaction to smoke and fire, among others.

Activities :

- Research and Development
- Service
- Training

Expertise on following materials :

- advanced composites
- polymers
- natural fibers and wood-based materials
- polymer concrete
- smart materials
- biomaterials (prosthesis)
- nanocomposites
- metals
- ceramics

Actual research domains concerning materials technology / Competences :

- advanced composites manufacturing technologies (RTM, Vacuum infusion, filament winding, pultrusion, hot-pressing, autoclave, pre-forming, fiber-placement, ...)
- wood-based composites manufacturing (hot-pressing)
- durability of composites and biomaterials



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- fire reaction, flame retardancy and thermal protection
- thermal and mechanical analysis
- non-destructive testing
- simulation of production processes
- rapid prototyping and tooling technologies
- new casting technologies
- technology of friction, lubrication and wear
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Available research infrastructure :

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Coordinate address :

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