FROM RESEARCH TO INDUSTRY

cea tech

BOOST YOUR R&D WITH CEA TECH TECHNOLOGY PLATFORMS

Skilled scientists, engineers, and technicians plus the latest in advanced software and equipment to speed innovation

CHALLENGES FOR INDUSTRY AND SOCIETY

Healthcare and the silver economy

Diagnostics, imaging, clinical testing, therapies, rehabilitation, wellness, medical systems, e-healthcare

The factory of the future

Productivity, reliability, continuous design and quality improvement, non-destructive testing, ergonomics and training, flexibility, adaptability

CEA Tech technology platforms

Renewable energy

Energy production (biomass, PV, hydrogen), transportation, aerospace, residential, mobile devices, energy storage, energy grids, energy efficiency, waste recovery and recycling

Materials and characterization

Synthesis, assembly, recycling, lifecycle analysis, rare-materials management, lightweight structures, materials efficiency

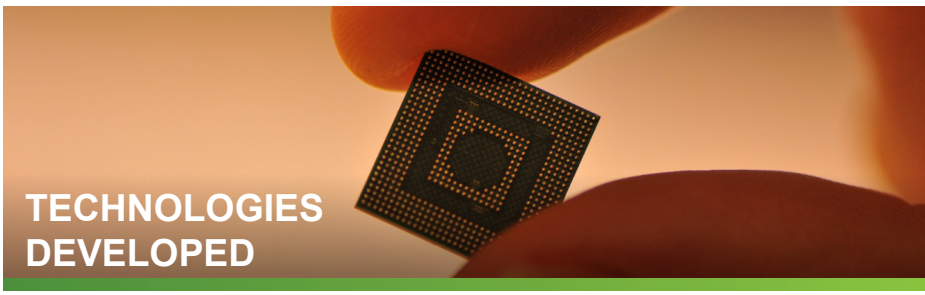
Information and communication technologies and information processing

Semiconductors, telecommunications, cloud computing, supercomputers, digital services, cybersecurity, the internet of things, embedded systems (transportation, security, aerospace), ambient intelligence

CEA Tech offers 25+ technology platforms:

- Average annual investment in new equipment and resources: €120 million
- More than 300 joint R&D contracts with manufacturing companies
- More than 4,000 employees
- Guaranteed confidentiality for your projects and data

CEA Tech technology platforms can boost your R&D in the following areas:



Nanoelectronics and micro- and nanosystems	Substrates (200 mm and 300 mm), transistors, photonics-on-silicon, 3D integration, MEMS (accelerometers, gyrometers), CPV cells, power components
Integrated circuit and embedded systems design	Hardware and software architectures (power consumption, real-time constraints), systems-on-chip
Powder metallurgy and recycling	Lifecycle analysis, magnets, powder-injection assembly, materials efficiency, lightweight structures
Nanocharacterization	Physico-chemical analysis (XPS, SIMS), morphological analysis (SEM, TEM), sample preparation
Photovoltaic solar	Materials (silicon), high-yield cells, organic cells, modules, systems integration, testing
Smart-grid systems	RES integration, stationary storage, charging systems for transportation
Batteries	Materials, elementary cells, battery packs, battery management systems, systems integration, testing, reliability
Fuel cells	Membrane-electrode assembly, bipolar plate design, integration into transportation systems, safety, reliability
Thermal technologies	Concentrated solar power, storage, building and process energy efficiency, waste-heat and CO^2 recovery
Clinatec	Medical imaging, diagnostics, medical systems, treatments for neurodegenerative diseases
Advanced manufacturing	Robotics, cobotics, non-destructive testing, virtual and augmented reality, interactive simulation, training, ergonomics
Cybersecurity	Software security, component security, ICT security evaluation and certification
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