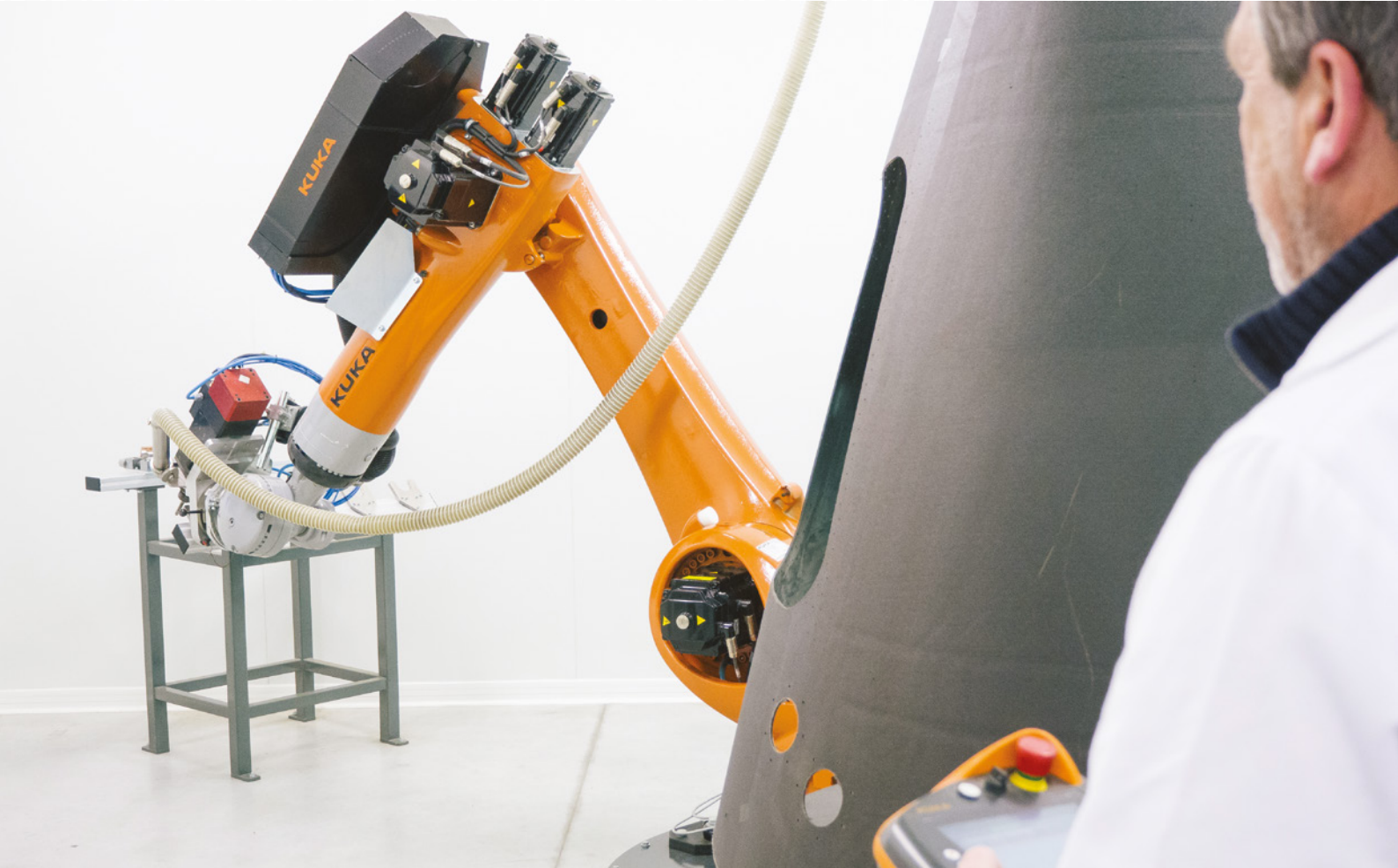




COMPOSITADOUR

COMPOSITES & ROBOTICS SOLUTIONS



ROBOTICS

KEYWORDS

Robotics simulation / Numerical twin / CAM
Offline trajectories generation
Software development / NDT / Ultrasound

RESEARCH TOPICS

Online robot control with external sensors feedback:

- Robot precision improvement
- Remote control, teleoperation

Control command of complex systems:

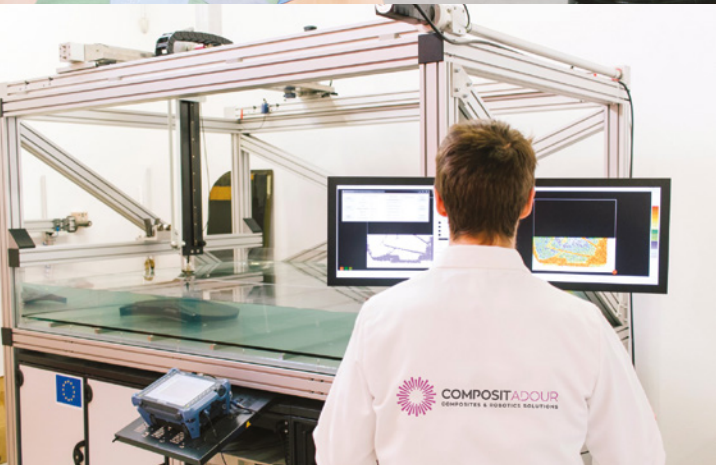
- Automatic trajectories generation
- Process control development

Online control, nondestructive testing

an innovative platform

ESTIA
INSTITUTE OF TECHNOLOGY

CCI BAYONNE
PAYS BASQUE
Euskal Herri



CAPABILITIES

Software

Autodesk | PowerMill®

Dassault Systèmes | DELMIA®

Coriolis Composites | CATFiber®

Coppelia Robotics | V-REP®

Robert McNeel & Associates | Rhinoceros 3D® & Grasshopper®

KUKA AG | KUKA.Sim® - KUKA.WorkVisual®

Microsoft | Microsoft Visual Studio

Equipments

Training cell: industrial robot control learning

- KUKA KR6 R1000 in a secured environment

Multijobs cell: manufacturing, polishing, layup, dimensional control

- KUKA KR240 R2900-F with vertical positioner, automatic effector change, suction

R&D cell: teleoperation, online control, NDT, plastic additive manufacturing, augmented reality

- KUKA KR10 R1100 AGILUS SIXX on mobile platform

AFP cells: LASER room with Coriolis Composites layup in a temperature and humidity controlled atmosphere

- KUKA KR240 R2900 with C1 effector on a 16m linear rail, 6T horizontal positioner
- ABB IRB6700 with C-Solo effector C-Solo with 1T vertical positioner

Additive Metallic Manufacturing cells:

- KUKA KR60 R2000 with Precitec CoaxPrinter head and 6kW LASER
- KUKA KR100 R2900 with Fronius CMT TPS3200 head synchronized with a KUKA KR240 R2900

NDT Composites cell: ultrasonic control in simple through or double transmission

- COMPUSCAN® - 3axes machine for automated control of complex 3D parts
- OLYMPUS OmniScan MX2 - mo



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