OUR PARTNERS ADVICE



M. Morancho, Professor at LAAS-CNRS

We were able to design within the LAAS's cleanroom electronic power devices on two different materials: silicon Superjonction diodes (components with deep trenches) and gallium nitride HEMTs (High Electron Mobility Transistors) on Silicon substrates. All technological post-epitaxy steps were operated in LAAS and allowed us to get components displaying the desired features.





M. Ghannam, Founder and CEO of 3DiS Technologies

LAAS-CNRS micro and nano technologies platform welcomes and supports R & D activities of our startup since its inception. A wellequipped platform and a very competent staff, coupled with direct access to the machines, create a synergy that allows us to develop innovative technology for assembly and integration of 3D microsystems.



THE MICRO AND NANOTECHNOLOGIES PLATFORM **OF LAAS-CNRS**



Ms Dejous, Professor at the IMS

Users of the platform, we always have attentive interactions about our need and it's purpose, fruitful discussions during the processes developments. Oriented since a while to surface acoustic wave devices, new projects have emerged, Photonics devices on polymer, inkjet deposition of graphene oxide films.



Renatech team became a must, both by its equipment and by the team itself, for its competency always at the forefront, and always friendly hospitality.

LAAS is a laboratory of the French National Center for Scientific Research (CNRS), within the INS2I and INSIS Institutes. It is associated to the French University Midi-Pyrénées of Toulouse.

It hosts more than 700 people (research scientists and faculty members, PhDs, postdocs and engineers, technicians and administrative staff).

The topics cover the following areas:

- Computer science;
- Robotics:
- Automatic control;
- Micro and nanosystems.

The platform activities are cofunded by:



Website: https://www.laas.fr/public/fr/Renatech Access to platform equipements: http://lims.laas.fr/default.aspx

Conception - Dominique Daurat, LAAS-CNRS Crédits photos - Yannick Marrot

LAAS-CNRS - 7 avenue du colonel Roche, BP 54200, 31031 Toulouse cedex 4 - France

A KNOW-HOW AND AN OPEN INFRASTRUCTURE TO SUPPORT **YOUR PROJECTS**

About Aeronautics and Space Defense Micro and Nanosystems Telecommunications Plant of the futur

Agriculture Energy





Health and Silver Economy Motor and Railway Transport





TECHNOLOGY for micro and nano devices prototyping

- 1680 m² clean and grey room 200 users Nearly 40 engineers and technicians 35 M€ equipement
- > micro-nano electronics
- > optics/photonics
- > micro/nano devices and micro/nano systems
- > bioelectronics, biosystems, biophysics

TECHNIQUE: equipment at the highest international level

> heat treatments assemblies/integrations ink jet epitaxy > depositions (plasma, ALD, LPCVD) > lithographies (optical, laser, electronic) > vacuum metallization > electroplating > characterizations > surface treatment > etching (dry, wet) > nanoreplication > chemistry > ion implantation



EXPERTISE scientific and technical by direct interactions with

- > technical staff of nearly 40 engineers and technicians in charge of the platform and nearly 100 researchers and professors of the laboratory
- > LAAS's simulation and characretization platforms
- > Renatech network https://www.renatech.org

& SUPPORT YOUR RID PROJECTS

WHO?



needing micro and nanofabrication means.

WHICH PROJECTS? Collaborative or service



- scientific and technical collaborations
- prototyping
- > services
- > hosting equipment/people
- > training
- > expertise and advise

HOW? to formalize various aspects

- > technical
- > human
- > financial (auditable billing procedure)
- > delay
- > privacy / IP
- > online tracking

renatech@laas.fr





National

International

Evolution of industrial demands



Every year • 150 supported projects • 40 external people hosted





