

JOIN THE VAN ALLEN FOUNDATION : A VISION, A NETWORK



Nanosatellites have opened up a new space era where space satellites are conceived and designed differently. Space has become accessible: first, to students, trained in the field, and second, to new industrialists, even those who are not from the space sector and who have never thought about it. The Van Allen Foundation was created to aggregate all the players, thereby demonstrating that such projects enable Montpellier University to train skilled human resources, and that young students can learn excellence at university. Our ambition is to make Montpellier University Space Centre an international benchmark centre for nanosatellites.

Michel COURTOIS, President of the Van Allen Foundation
Former Director of CNES Toulouse and ESA/ESTEC, Member of the Technologies Academy

Founder Members



Montpellier University 3D PLUS World leader in 3D electronic components for the space industry
AIRBUS Defence & Space 2nd in the world in the space sector
Assystem Technologies International reference group in engineering, quality and digital solutions, innovation partner for space sector players.
LATÉCOËRE Interconnection Systems Branch World-class leader in interconnection systems for aeronautics and space (1st for avionics racks, 2nd for electrical harnesses, 1st in Europe for satellite wiring)
SPHEREA A recognized worldwide player in testability solutions and critical systems continuous improvement paving the way of predictive solutions
ZODIAC DATA SYSTEMS (Zodiac Aerospace Group) Global specialist in high-tech space and aeronautical systems including communications telemetry and instrumentation

Qualified members of the Board of Directors



Ambassadors



JOIN US AND DEDUCT YOUR DONATION FROM YOUR TAXES!

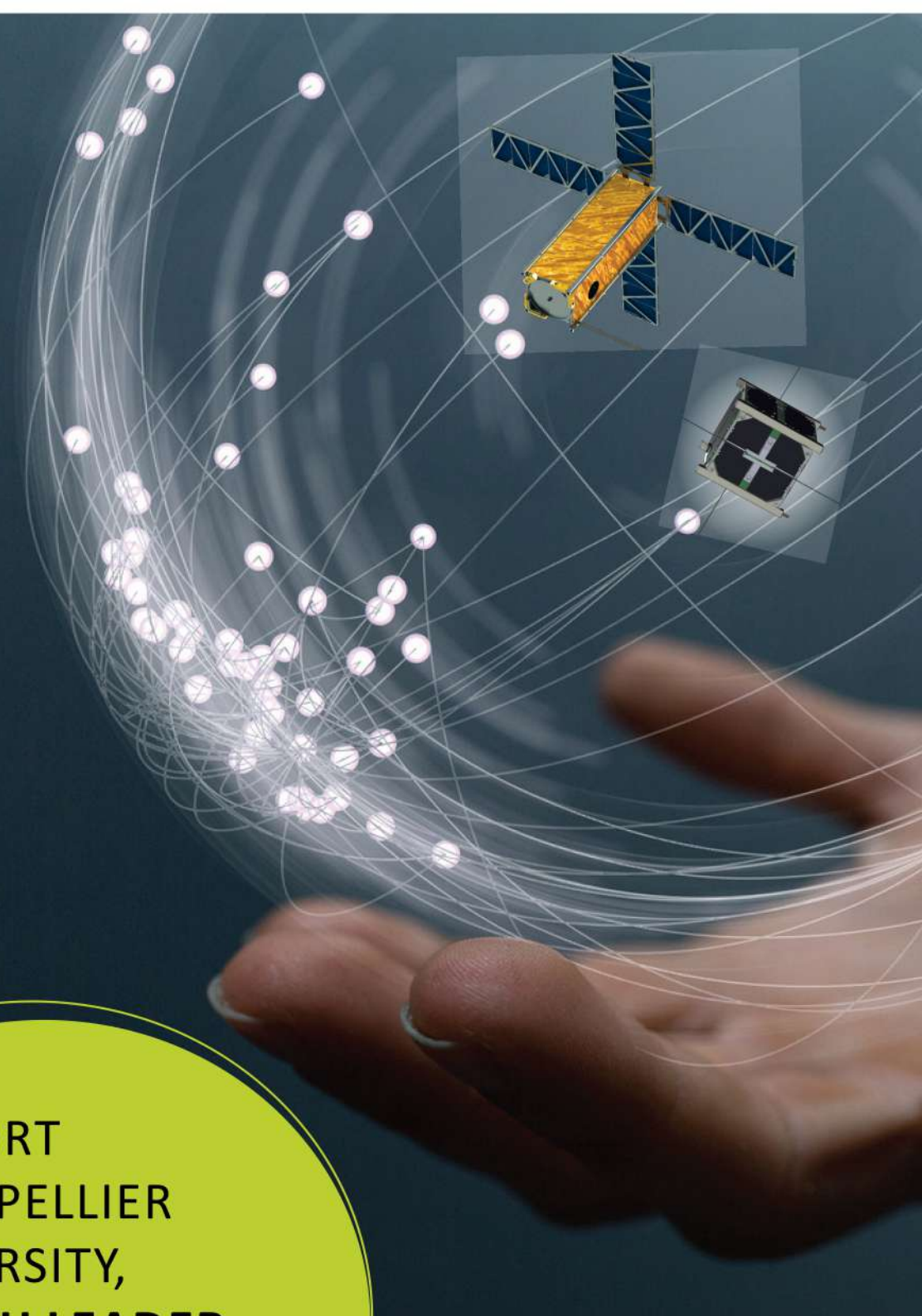
or or +

- Make a donation (from 1€):** join the adventure - private and corporate -
- Join the Partners Club (from 5000€/year over 3 years - *depending on the corporate turnover):** the choice of network - corporate -
- Become a Founder Member:** the strategic choice (get in touch) - corporate -
- corporate donor:** 60% of your donation deductible from your business tax (up to 0.5% of turnover excluding VAT)
- private donor:** 66% of your donation deductible from your income tax
- private donor subject to the ISF wealth tax:** 75% of your donation deductible from the wealth tax

FOUNDATION VAN ALLEN Université de Montpellier, campus St Priest, Bât 5-IES, 860 rue St Priest, CC06002, 34095 Montpellier cedex 5 FRANCE / Phone : +33 (0)4.67.14.49.91 / fondationvanallen@umontpellier.fr / www.fondationvanallen.edu.umontpellier.fr



MONTPELLIER UNIVERSITY PARTNERSHIP FOUNDATION



SUPPORT MONTPELLIER UNIVERSITY, FRENCH LEADER IN UNIVERSITY NANOSATELLITES

Innovation | Training | Networking

CREATING OUR SPACE
www.fondationvanallen.edu.umontpellier.fr



A HISTORY, A DUO

The nanosatellite sector was launched in France in 2006 by Montpellier University (UM), equipped with:

the 1st French University Space Centre, the "CSU Montpellier-Nîmes", where the students develop nanosatellites from A to Z, supervised by the faculty in collaboration with industrialists.

the Van Allen Foundation, which offers strategic and financial support. The goal is to raise new funds, especially through corporate philanthropy, in order to continue the adventure.



Year	CSU Milestones	FVA Milestones
2006	1st 1U* ROBUSTA nanosatellite (2006-12), in the context of the CNES EXPRESSO call for projects, CNES funding	
2011	1st French CSU Creation of 1st French University Space Centre	
2012	ESA launch of ROBUSTA, 1st French nanosatellite in orbit	2012 Creation of the Van Allen Foundation
2012	2nd 1U* ROBUSTA 1B nanosatellite (2012-15), CNES JANUS project	2013 Van Allen Foundation - CNES funding of 1U ROBUSTA 1B
2013	1st 3U** MEDITERRANEE nanosatellite (2013-2019), CNES partnership for Météo France	2013 Van Allen Foundation - CNES funding of 3U Méditerranée
2014	3rd 1U* MT Cube nanosatellite (2014-17), ESA partnership	2014 Van Allen Foundation - ESA funding of 1U MT Cube
2015	4th 1U* CELESTA nanosatellite (2015-2018), CERN partnership, CERN funding	2014 Zodiac Data Systems, new founder member of the Van Allen Foundation
2015	Space Care UM, the only French training entity which is a member of the CNES Space Care group (saving space from debris. LOS law)	2015 Launch of the Van Allen Foundation Partners Club
2016	1st French "University Space Centre" building, supported by the Occitanie Regional Council, housing the CSU, FVA, business organisations (Intespace, Systheia, Tecnalia France, Trad) SATT AxLR and LRI incubator	2016 Latécoère, new founder member of the Van Allen Foundation
2016	New UM programme: Master in Space Systems Engineering, undergraduate to Master level, with internships from the 1st year at the CSU	
2017	PSLV launch of ROBUSTA 1B, 2nd UM nanosatellite in orbit (from India)	2017 Sphera, new founder member of the Van Allen Foundation
2018	ROBUSTA1B 1 year of scientific data collected in orbit	2018 Assystem Technologies, new founder member of the Van Allen Foundation

TECHNOLOGICAL INNOVATION

Nanosatellites provide a low cost and rapid solution to test new technologies in space for Industry and Research. They enable data collection for a range of potential applications: humanitarian, environmental...

INNOVATION at the University Space Centre

2 nanosatellite lines: 1U and 3U CubeSat format
Expert grasp of the technology: nanosatellites developed entirely in-house and launched into orbit

International collaboration



CSU resources available to industry: resources for testing, construction and satellite-related systems



STRATEGIC SUPPORT by the Van Allen Foundation

Nanosatellite development strategy by the Foundation's Board of Directors, including personalities from CNES, ESA and JPL/NASA space issues

Privileged access for the industrial partners of the University of Montpellier research (laboratories, platforms) and training network



Support for institutional relationships and international partnerships

Promotion of the nanosatellite sector

PRACTICAL TOP-FLIGHT TRAINING

The CSU welcomes students developing nanosatellites for internships or study projects. The students work on the different aspects of space missions: upstream studies with the design facility centre, development and launch of satellites, and operations in orbit.

PROJECT-BASED CULTURE at the University Space Centre

All levels and all disciplines: from undergraduate to post-doctoral, notably in mechanics, electronics, computer science...



Nanosatellites as applications of excellence

Developing sought-after skills: systems engineering, team projects management
Working methods used in the profession
Interactions with space agencies and Industry: projects, contribution to training courses, participation in trade fairs

Future operational employees at the end of their study programme
Job opportunities in the Aeronautics & Space industry (former students at Airbus, CNES, 3DPlus...), as well as in energy, telecoms, transport...

FINANCIAL SUPPORT by the Van Allen Foundation

Providing funding for study programmes post-doctoral students, doctoral students, student internships, Master and DUT programmes... and supervision by CSU staff (Technical Director, ground station engineer, radiocommunications engineer, technician)

International: sponsoring 3 students at JPL/ NASA for their theses

Funding for project technology 50% launch of ROBUSTA 1B, materials...

> 2,1 M€ already invested (or 350,000€ /year) by the Van Allen Foundation in training & projects