



FRENCH SPACE
INDUSTRY
CAPABILITIES
CATALOGUE

CATALOGUE
DES CAPACITÉS
DE L'INDUSTRIE
SPATIALE FRANÇAISE

CATALOGUE DES CAPACITES DE L'INDUSTRIE SPATIALE FRANCAISE

cnes.fr/entreprises/catalogue-industrie-spatiale



EDITORIAL

Avec l'essor des nouvelles technologies du numérique et du « Newspace », de nombreux domaines d'application du spatial sont en pleine évolution, tels l'environnement, les télécommunications, les transports, la mobilité ou la santé. Dans ce contexte où l'on voit émerger de nouveaux acteurs publics ou privés, et face à des enjeux majeurs à la fois sociétaux, scientifiques ou de souveraineté nationale, l'Europe reste fermement installée dans le trio de tête des puissances spatiales, derrière les Etats-Unis et bien souvent devant la Chine.

La France est le moteur historique de ce succès européen, avec un secteur spatial particulièrement performant, dans lequel le CNES articule et irrigue les mondes de la recherche et de l'industrie.

Grâce à une politique industrielle volontariste, menée depuis plus d'un demi-siècle, en s'appuyant sur des investissements publics ciblés, notre pays dispose d'une industrie spatiale compétitive de très haute technologie, pourvoyeuse d'emplois, avec des compétences multiples, allant des grands maîtres d'œuvre industriels, des entreprises de taille intermédiaire, aux très nombreuses PME ou startups. Cette industrie représente aujourd'hui des dizaines de milliers d'emplois hautement qualifiés directement liés au spatial, soit plus du tiers des emplois en Europe, et génère environ la moitié du chiffre d'affaires dégagé par le secteur spatial européen.

Le CNES a le plaisir de publier ce catalogue des capacités de l'industrie spatiale française. Ce dernier est destiné à promouvoir l'écosystème français. Il s'agit de favoriser le réflexe France auprès des partenaires français et internationaux et de contribuer ainsi au succès de nos industriels sur les marchés à l'export. Avec plus de 250 entreprises déjà référencées, et une fonctionnalité de recherche de compétences accessible en ligne, c'est un outil de « sourcing » unique pour trouver le prestataire ou le partenaire disposant de l'expertise ou de la capacité de développement attendue.

Agences spatiales, laboratoires scientifiques et industriels, nous inventons l'espace de demain !

Philippe Baptiste, Président Directeur Général du CNES, le 15 février 2024

FRENCH SPACE INDUSTRY CAPABILITIES CATALOGUE

<https://cnes.fr/en/business/space-industry-catalogue>



EDITORIAL

With the surge in new digital technologies and New Space, many applications served by space—like for example the environment, telecommunications, transport, mobility and healthcare—are undergoing deep transformations. At a time when new public and private players are coming onto the scene and we are facing major social, scientific and national sovereignty challenges, Europe remains steadfastly in the world's top three space powers, behind the United States and very often ahead of China.

France has historically played a driving role in this European success story, through a particularly vibrant space sector in which CNES shapes and irrigates research and industry.

Thanks to a proactive industrial policy pursued over the course of more than half a century and sustained by targeted government investments, our nation has built a competitive high-tech space industry providing jobs and a broad palette of skills, spanning large primes, mid-tier firms and numerous SMEs and start-ups. This industry today supports tens of thousands of highly skilled jobs directly connected to space, accounting for more than a third of all jobs in Europe and nearly half of European space sector revenues.

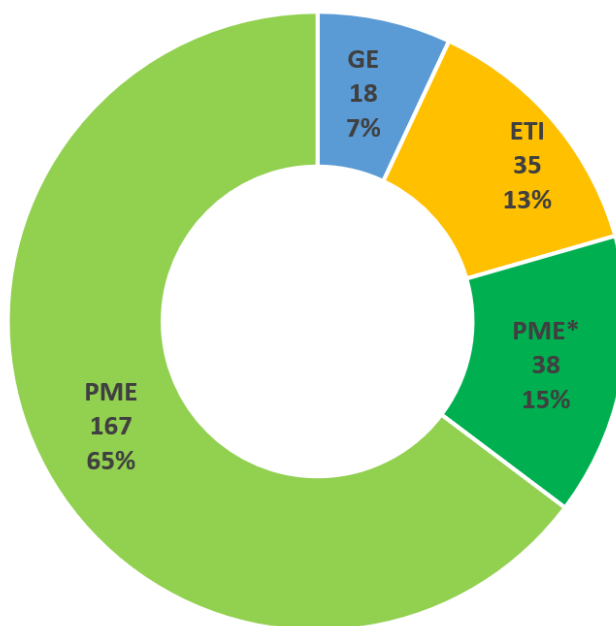
CNES is pleased to publish this catalogue of French space industry capabilities. It is designed to promote the French ecosystem and to encourage partners at home and abroad to “think France”, thus helping our manufacturers to succeed in export markets. With more than 250 firms already listed and its online skill search feature, the catalogue is a unique sourcing tool to find the expertise or development capabilities you are looking for.

Together, we space agencies, research laboratories and industry contractors are inventing the future of space!

Philippe Baptiste, CNES Chairman & CEO, 15 February 2024

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FRENCH SPACE COMPANIES SOCIÉTÉS SPATIALES FRANÇAISES



	Type	Staff headcount	Turnover	Total balance sheet
PME / SME	Petite et Moyenne Entreprise Small and Medium Enterprise	≤ 250	≤ 50 M€	≤ 43 M€
PME* / SME*	Petite et Moyenne Entreprise étendue Extended Small and Medium Enterprise	Same criteria as SME regardless of shareholding (owned by MSE or LE)		
ETI / MSE	Entreprise de taille Intermédiaire Mid-sized Enterprise	≤ 5000	≤ 1500 M€	≤ 2000 M€
GE / LE	Grande Entreprise Large Enterprise	5000 <	1500 M€ <	2000 M€ <

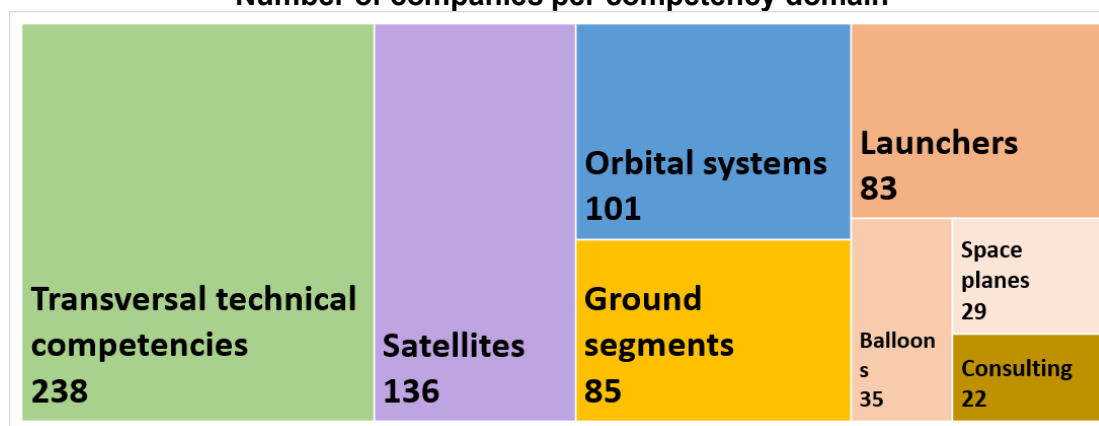
2021

COMPETENCIES - COMPETENCES

<https://cnes.fr/entreprises/catalogue-industrie-spatiale> : outil de recherche de compétences en ligne

<https://cnes.fr/en/business/space-industry-catalogue> : online competencies sourcing tool

Number of companies per competency domain



Competencies broken down by area – Compétences détaillées par domaine

Orbital systems	Orbital systems prime contractor Orbital systems engineering On-board to ground engineering	Orbital systems equipment manufacturers AIT-AIV System simulation means
Ground segments	Ground control center Ground mission center Ground segments equipment	Ground station Beacon, user terminal Orbital system operations
Launchers	Launcher prime contractors Launcher engineering Launcher Propulsion Launcher equipment	Launcher test means Launch base development Launch base exploitation Launch services and operations
Satellites	Structure Thermal control Harness Electrical power Propulsion Avionic Com payload TTC	AOCS On-board computer Telemetry payload Scientific payload Optical payload Microgravity payload Navigation-Localisation payload Security-defence payload
Space Planes	Space plane prime contractors Space plane engineering On-board to ground engineering Space plane equipment	Space plane test means Aerospace base development Space planes services and operations
Balloons	Balloon envelopes Balloon gondola & on-board equipment	Balloon miscellaneous (SW, ground segment, metrology, parachute, etc.)
Transversal competencies	System engineering AIV AIT Test means Flight dynamics Atmospheric re-entry Space data processing Security, encryption Mechanisms Structure Mechanics Aerothermodynamics Electric Thermic, coatings, MLI, thermoelectronics, cryotechnics, etc. Electronic components	Electronics Antennas Robotics Electromagnetic compatibility Radiofrequencies Satellite location Time-Frequency Industrial gases Pyrotechnics Quality Assurance (product assurance, safety) Materials & Process Coatings Space environment effects
Consulting in space domain	Concept, feasibility and engineering studies of space systems Assistance in setting-up projects and contracts Assistance to projects and contracts follow-up	Support and training to operations and exploitations of space systems

List of companies – Liste des sociétés

If your company is not referenced below → contact us at
Si votre société n'est pas référencée → contactez nous à

catalogue.industrie@cnes.fr

3D PLUS
3DCERAM
ABBIA GNSS TECHNOLOGIES
ABSOLUT SENSING
ABSOLUT SYSTEM
ACB - ATLANTEC
ACB - CIBEL
ACRI ST
ACTIA AEROSPACE Dinard
ACTIA AEROSPACE Toulouse
AD INDUSTRIES - MS COMPOSITES
ADDUP
ADVEOTEC
AFC-STAB
AGENIUM SPACE
AGILINK MICROWIRES
AIKO
AIRBUS DEFENCE AND SPACE
AIRBUS PROTECT
AKKA Technologies
ALATYR
ALCADIA ENTREPRISES
ALDORANE
ALDORIA
ALLIANCE4U
ALTEN
ALTER TECHNOLOGY France
AMETRA
ANYWAVES
ARCSPACE
AREELIS TECHNOLOGIES
ARIA ELECTRONIQUE
ARIANEGROUP
ARIANESPACE
ARKANE
ARMOR ARSENAL
ASB AEROSPATIALE BATTERIES
ATEM
ATOS
AUREA TECHNOLOGY
AVANTIS

AXON CABLE
BERTIN ALPAO
BERTIN TECHNOLOGIES
BLACKLEAF
CAILABS
CALLISTO
CAPGEMINI
CEDRAT TECHNOLOGIES
CERFACS
CES WORKS
CGI
CILAS
CIO SYSTEMES EMBARQUES
CIRMA
CLEMESSY
CLIX INDUSTRIES
CLS
CNIM SYSTEMES INDUSTRIELS
COMAT
COREDUX FRANCE
CORIOLIS
CREATIVE EUROCOM
CS GROUP
CT INGENIERIE
CYBERINFLIGHT
CYSEC FRANCE
DACTEM INTERNATIONAL
DASSAULT AVIATION
DAWN AEROSPACE
DYCSYT
EASII IC
EGIDE
ELEMCA
EMITECH-GNSS
ENVIRPROD - ARMELIO
EREMS
ERNEO
E-SPACE
ESQS - APAVE
ESSP
ETIENNE LACROIX TOUS ARTIFICES

EUROCONSULT
EUROPROPULSION
EUROSATCOM
EUTELSAT
EVERSAT
EXAIL
EXAIL AEROSPACE
EXENS GROUP
EXOTRAIL
EXPLEO
EXXELIA
FDC
FLEURET
FLUCTUS
FLYING WHALES
GAEL SYSTEMS
GAMA
GEO4I
GEOMATYS
GETELEC
GISAÏA
GMV INNOVATING SOLUTIONS
GRASP
GREENERWAVE
GROUPE ADF
HALCYON
HEATSELF
HEMERIA
HEMERIA AIRSHIP
HENSOLDT SPACE CONSULTING
HIONOS
HOOKE ELECTRONICS
HOTBLOCK ON BOARD
HUMAN DESIGN GROUP
HYGEOS
INDEPENDENT LIVING BASE
INFINITE ORBITS
InMind-VR
INSTITUT LAFAYETTE
InterAC
INTRASPEC TECHNOLOGIES
ION-X

ISP SYSTEM
JFB SPACE CONSULTING
KAYRROS
KERDRY
KINEIS
KRATOS COMMUNICATIONS
L3HARRIS GEOSPATIAL
LAB'STORIES
LATECOERE INTERCONNECTION SYSTEMS
LATESYS
LATITUDE
LISI AEROSPACE ADDITIVE MANUFACTURING
LOFT ORBITAL
LUMIBIRD
M3 SYSTEMS
MAGELLIUM
MAIASPACE
MAP SPACE COATINGS
MATRA ELECTRONIQUE
MECANO I.D.
MEDES
MEDYSYS
MELIAD
MERSEN BOOSTEC
METRAVIB ENGINEERING
MICRONOR
MICROTEC
MIRATLAS
MOSS
MVG (SATIMO)
NANOXPLORE
NERYS
NEVERHACK
NEXIQ
NEXTER MUNITIONS
NEXVISION
NICOMATIC
NIMESIS TECHNOLOGY
NOVA COGITO
NOVELTIS
NUMERISAT
OMEGA SYSTEMES (WEB INDUSTRIES)
OPUS AEROSPACE
ORBITAL VIEWS

PANGEA AEROSPACE
PARSIMONI
PCB PIEZOTRONICS
PHOTONIS
PIXSTART
PLANEXUS
PLUG IN
POSITHÔT
PROCUREEZY
PROMETHEE Earth Intelligence
PVa Conseil & Développement
PYROALLIANCE
PYTHEAS TECHNOLOGY
R.TECH
RADIAL
RAKON
RESA
RESCOLL
RIDE!
RTIME
SAFRAN AIRCRAFT ENGINES
SAFRAN ELEC & DEF
SAFRAN REOSC
SAFRAN.AI
SAFT
SAP Micromécanique
SATCONSEIL
SATCONSULT
SCALAGENT D.T.
SCALIAN
SCASSI
SCIENTEAMA
SECTOR
SEGULA TECHNOLOGIES
SELHA Group
SEREME
SERMA MICROELECTRONICS
SERMA TECHNOLOGIES
SILIOS TECHNOLOGIES
SMAC
SODERN
SODITECH
SOGELAIR AEROSPACE
SOKARIS INGENIERIE
SOPEMEA
SOPHIA ENGINEERING

SOTEREM
SOTREM SEO
SPACEBEL
SPACEDREAMS
SPACELOCKER
SpacePharma
SPARTAN SPACE
SPHEREA
SPIRIT TECHNOLOGIES
STEEL ELECTRONIQUE
STIRWELD
STMICROELECTRONICS
SYLPHAERO
SYMETRIE
SYNTONY
SYSTRONIC
TECALEMIT AEROSPACE
TECALEMIT TUBES
TECHNATIUM
TECHNIP ENERGIES
TELEDYNE E2V
TELERAD
TELESPAZIO FRANCE
TEMISTH
TERAKALIS
TERNWAVES
THALES ALENIA SPACE
THALES DIS
THALES SERVICES NUMERIQUES
THALES SESO
THE EXPLORATION COMPANY
THERMOCOAX
THIOT INGENIERIE
THRUSTME
TIMELINK MICROSYSTEMS
TRAD
TRONICO
UNITED MONOLITHIC SEMICONDUCTORS (UMS)
U-SPACE
VISHAY
VISIOTERRA
VIVERIS
WATT&WELL
WEEROC

Orbital systems						
	AT-ATV System	System simulation means	Orbital systems equipment manufacturers	On-board to ground engineering	Orbital systems engineering	Orbital systems prime contractor
ABBIA GNSS TECHNOLOGIES	●					
ABSOLUT SENSING				●		
ABSOLUT SYSTEM	●	●	●	●		
ACTIA AEROSPACE Dinard	●	●	●			
ACTIA AEROSPACE Toulouse		●				
AD INDUSTRIES - MS COMPOSITES		●				
ADDUP		●				
AFC-STAB		●				
AGENIUM SPACE			●			
AGILINK MICROWIRES		●				
AIKO			●	●		
AIRBUS DEFENCE AND SPACE	●	●	●	●	●	
AIRBUS PROTECT			●	●		
AKKA Technologies			●	●		
ALATYR			●		●	●
ALDORIA			●			
ALLIANCE4U	●					
ALTEN	●		●	●		
ALTER TECHNOLOGY France	●					
ARCSPACE		●		●		
ARIANEGROUP	●	●	●	●		
ARMOR ARSENAL		●				
ATOS	●		●	●		
AVANTIS	●			●		
BERTIN TECHNOLOGIES		●				
CAPGEMINI				●		
CES WORKS				●		
CGI	●		●	●		
CIRMA	●	●				
CLEMESSY	●		●			
COMAT	●	●				
COREDUX FRANCE		●				
CREATIVE EUROCOM		●				
CS GROUP	●	●	●	●		
CT INGENIERIE				●		
DACTEM INTERNATIONAL	●					
DAWN AEROSPACE		●				●
EREMS		●				
ERNEO		●				

Orbital systems						
	AI-ATV System	Simulation means	Orbital systems equipment	Manufacturers	On-board to ground engineering	Orbital systems engineering
						Space infrastructure operator
E-SPACE	●	●	●	●	●	
ESSP			●			
EUTELSAT						●
EXAIL AEROSPACE			●			
EXOTRAIL	●					
EXPLEO			●			
FLEURET		●				
GETELEC		●				
GMV INNOVATING SOLUTIONS	●	●	●	●	●	
HEATSELF	●					
HEMERIA	●	●	●	●	●	
HOTBLOCK ON BOARD		●				
HUMAN DESIGN GROUP	●			●		
INFINITE ORBITS	●	●	●	●	●	
KINEIS			●		●	●
LATECOERE INTERCONNECTION SYSTEMS	●			●		
LATESYS	●			●		
LOFT ORBITAL	●		●	●	●	●
MAIASPACE				●	●	
MECANO I.D.	●	●		●		
MEDYSYS			●			
NEVERHACK	●			●		
NEXVISION		●				
NIMESIS TECHNOLOGY				●		
NOVA COGITO				●		
NOVELTIS			●	●		
OPUS AEROSPACE				●		
PROMETHEE EARTH INTELLIGENCE						●
PYROALLIANCE		●				
PYTHEAS TECHNOLOGY		●				
RESA		●				
RTIME			●			
SAFRAN AIRCRAFT ENGINES	●	●				
SAFRAN ELEC & DEF		●				
SATCONSULT			●	●		
SCALAGENT D.T.			●			
SCALIAN	●					
SEGULA TECHNOLOGIES			●	●		
SODITECH				●		

Orbital systems						
	AT-ATV System	System simulation means	Orbital systems equipment manufacturers	On-board to ground engineering	Orbital systems engineering	Orbital systems prime contractor
SOGECCLAIR AEROSPACE						
SOPEMEA						
SOPHIA ENGINEERING						
SOTEREM						
SPACEBEL						
SPACELOCKER						
SPHEREA						
STEEL ELECTRONIQUE						
SYMETRIE						
SYNTONY						
TELERAD						
TELESPAZIO France						
TERNWAVES						
THALES ALENIA SPACE						
THALES SERVICES NUMERIQUES						
THALES SESO						
THE EXPLORATION COMPANY						
THERMOCOAX						
TRAD						
TRONICO						
U-SPACE						
VIVERIS						
WATT&WELL						

Launchers								
	Launch base development	Launcher equipment manufacturers	Launch base exploitation	Launcher engineering	Launcher prime contractors	Launcher test means	Launcher Propulsion	Launch services and operations
ABSOLUT SYSTEM								
AD INDUSTRIES - MS COMPOSITES								
AFC-STAB								
AIRBUS DEFENCE AND SPACE								
AIRBUS PROTECT								
ALCADIA ENTREPRISES								
ALTEN								
AMETRA								
AREELIS TECHNOLOGIES								
ARIANEGROUP								
ARIANESPACE								
ARMOR ARSENAL								
ASB AEROSPATIALE BATTERIES								
ATEM								
AUREA TECHNOLOGY								
AVANTIS								
CAPGEMINI								
CERFACS								
CIRMA								
CLEMESSY								
CNIM SYSTEMES INDUSTRIELS								
COMAT								
COREDUX FRANCE								
CS GROUP								
CT INGENIERIE								
DACTEM INTERNATIONAL								
DASSAULT AVIATION								
ENVIRPROD - ARMELIO								
ERNEO								
ESQS - APAVE								
EUROPROPULSION								
EXAIL								
EXAIL AEROSPACE								
EXPLEO								
GMV INNOVATING SOLUTIONS								
GROUPE ADF								
HALCYON								
HIONOS								
HUMAN DESIGN GROUP								
LAB'STORIES								

Launchers								
	Launch base development	Launcher equipment manufacturers	Launch base exploitation	Launcher engineering	Launcher prime contractors	Launcher test means	Launcher Propulsion	Launch services and operations
LATECOERE INTERCONNECTION SYSTEMS		●				●		
LATESYS	●	●	●	●		●		
LATITUDE		●		●	●	●	●	●
MAIASPACE	●	●	●	●	●	●		●
MECANO I.D.		●				●		
MEDYSYS				●				
MICROTEC						●		
NERYS						●		
NEXTER MUNITIONS		●						
NOVA COGITO				●				
OMEGA SYSTEMES (WEB INDUSTRIES)		●						
OPUS AEROSPACE		●		●	●	●	●	●
PANGEA AEROSPACE							●	
PCB PIEZOTRONICS						●		
POSITHÔT	●					●		
PYROALLIANCE		●						
PYTHEAS TECHNOLOGY		●						
R.TECH	●		●					
RESA		●						
RIDE!								●
SAFRAN ELEC & DEF		●						
SATCONSULT				●				
SEGULA TECHNOLOGIES				●		●		
SEREME						●		
SOGECCLAIR AEROSPACE				●				
SOKARIS INGENIERIE		●						
SOPHIA ENGINEERING				●		●		
SPACEBEL						●		
SPACEDREAMS	●		●	●		●		●
SPHEREA						●		
SYLPHAERO							●	
TECALEMIT AEROSPACE		●					●	
TECALEMIT TUBES		●						
TECHNIP ENERGIES	●						●	
TELESPAPIO France			●					
TEMISTH				●		●	●	
TERAKALIS						●		
THALES SERVICES NUMERIQUES				●				
THE EXPLORATION COMPANY							●	
THERMOCOAX						●	●	

● : link to the company's PDF file

Satellites															
	Avionic	Thermal control	Navigation/Localisation payload	Imaging payload	Scientific payload	Optical payload	Com., IoT payload	Security-defence payload	Harness	On-board computer	Propulsion	Electrical power	AOCS	Structure	Telemetry payload
3D PLUS															
3DCERAM															
ABSOLUT SYSTEM															
ACRI ST															
ACTIA AEROSPACE Dinard															
AD INDUSTRIES - MS COMPOSITES															
ADDUP															
AFC-STAB															
AGENUM SPACE															
AGILINK MICROWIRES															
AIKO															
AIRBUS DEFENCE AND SPACE															
AKKA Technologies															
ALATYR															
ALDORIA															
ALLIANCE4U															
ALTEN															
AMETRA															
ANYWAVES															
ARCSPACE															
AREELIS TECHNOLOGIES															
ARIANEGROUP															
ARMOR ARSENAL															
ASB AEROSPATIALE BATTERIES															
ATEM															
ATOS															
AUREA TECHNOLOGY															
AVANTIS															
AXON CABLE															
BERTIN TECHNOLOGIES															
CAILABS															
CAPGEMINI															
CEDRAT TECHNOLOGIES															
CERFACS															
CGI															
CILAS															
CIRMA															
CLS															
COMAT															
COREDUX FRANCE															

Satellites																
	Avionic	Thermal control	Navigation-Localisation payload	Imagery payload	Scientific payload	Optical payload	Com ; IoT payload	Security-defence payload	Harness	On-board computer	Propulsion	Electrical power	AOCS	Structure	Telemetry payload	TTC
CREATIVE EUROCOM	●			●	●					●		●				
CS GROUP						●				●						●
CT INGENIERIE	●	●	●								●			●		
DACTEM INTERNATIONAL	●										●	●				●
DASSAULT AVIATION	●															
DAWN AEROSPACE											●					
DYCSYT													●			
EASii IC													●			
ENVIRPROD - ARMELIO											●				●	
EREMS	●		●	●	●							●				
ERNEO												●				
E-SPACE							●									
EUTELSAT							●	●								
EXAIL			●		●	●							●			
EXAIL AEROSPACE			●													●
EXOTRAIL											●		●			
EXPLEO										●		●			●	
GAMA											●					
GETELEC	●											●				
GMV INNOVATING SOLUTIONS	●									●			●			
HALCYON														●		
HEATSELF		●									●					
HEMERIA		●							●				●	●		
HIONOS	●									●						
HOTBLOCK ON BOARD		●														
HYGEOS						●										
INFINITE ORBITS			●							●						
ION-X										●	●	●		●	●	●
KINEIS							●									
LAB'S STORIES		●												●		
LATECOERE INTERCONNECTION SYSTEMS	●			●	●	●			●		●	●				
LATESYS		●												●		
LOFT ORBITAL		●					●	●	●	●		●	●	●		●
LUMIBIRD						●									●	●
M3 SYSTEMS			●													
MAGELLUM						●										
MAIASPACE										●						
MECANO I.D.		●		●	●		●							●		
MEDES				●												
MEDYSYS														●		

Satellites															
	Avionics	Thermal control	Navigation/Localisation payload	Imagery payload	Scientific payload	Optical payload	Com., IoT payload	Security-defence payload	Harness	On-board computer	Propulsion	Electrical power	AOCS	Structure	Telemetry payload
MELIAD															
MERSEN BOOSTEC															
METRAVIB ENGINEERING															
MICROTEC															
NEVERHACK															
NEXVISION															
NIMESIS TECHNOLOGY															
NOVELTIS															
NUMERISAT															
OMEGA SYSTEMES (WEB INDUSTRIES)															
PANGAEA AEROSPACE															
PARSIMONI															
PCB PIEZOTRONICS															
PLANEXUS															
PYTHEAS TECHNOLOGY															
R.TECH															
RADIALL															
RESA															
RESCOLL															
SAFRAN AIRCRAFT ENGINES															
SAFRAN ELEC & DEF															
SAFRAN REOSC															
SAFT															
SAP Micromécanique															
SCALIAN															
SCIENTEAMA															
SEGULA TECHNOLOGIES															
SELHA Group															
SILIOS TECHNOLOGIES															
SODERN															
SODITECH															
SOGECCLAIR AEROSPACE															
SOPHIA ENGINEERING															
SOTEREM															
SOTREM SEO															
SPACEBEL															
SPACELOCKER															
SPACEPHARMA															
STEEL ELECTRONIQUE															
SYLPHAERO															

Satellites																
	Avionic	Thermal control	Navigation/Localisation payload	Imagery payload	Scientific payload	Optical payload	Com., IoT payload	Security-defence payload	Harness	On-board computer	Propulsion	Electrical power	AOCS	Structure	Telemetry payload	TTC
SYMETRIE																
TECALEMIT AEROSPACE																
TECALEMIT TUBES																
TELEDYNE E2V																
TELESPAPIO France																
TEMISTH																
TERNWAVES																
THALES ALENIA SPACE																
THALES SERVICES NUMERIQUES																
THALES SESO																
THERMOCOAX																
THRUSTME																
TRONICO																
U-SPACE																
VIVERIS																
WATT&WELL																

Ground segments						
	Beacon, user terminal	Ground control center	Ground mission center	Ground segments equipment manufacturers	Orbital system operations	Ground station
ACRI ST						
ACTIA AEROSPACE Dinard						
ACTIA AEROSPACE Toulouse						
AFC-STAB						
AGENUM SPACE						
AIKO						
AIRBUS DEFENCE AND SPACE						
AIRBUS PROTECT						
ALATYR						
ALLIANCE4U						
ALTEN						
AMETRA						
ARIANEGROUP						
ATEM						
ATOS						
AUREA TECHNOLOGY						
AVANTIS						
BERTIN TECHNOLOGIES						
CAILABS						
CALLISTO						
CAPGEMINI						
CERFACS						
CGI						
CIRMA						
CIO SYSTEMES EMBARQUES						
CLEMESSY						
CLS						
CREATIVE EUROCOM						
CS GROUP						
CT INGENIERIE						
EREMS						
ESSP						
EUROSATCOM						
EUTELSAT						
EVERSAT						
EXAIL AEROSPACE						
EXENS GROUP						
EXOTRAIL						
EXPLEO						

Ground segments						
	Beacon, user terminal	Ground control center	Ground mission center	Ground segments equipment manufacturers	Orbital system operations	Ground station
FDC	●					
FLEURET				●		●
FLYING WHALES			●			
GMV INNOVATING SOLUTIONS		●	●		●	●
GREENERWAVE	●					
HEMERIA					●	
HUMAN DESIGN GROUP		●	●			
KINEIS	●	●	●		●	●
KRATOS COMMUNICATIONS		●	●	●		●
LATECOERE INTERCONNECTION SYSTEMS						●
LATESYS				●		
LOFT ORBITAL		●	●		●	
LUMIBIRD				●		
M3 SYSTEMS	●					
MAGELLIUM			●			
METRAVIB ENGINEERING				●		
MICROTEC	●			●		●
MIRATLAS				●	●	●
NIMESIS TECHNOLOGY				●		
NUMERISAT	●			●		●
PLANEXUS	●			●		
POSITHÔT				●	●	
PYROALLIANCE				●		
RESA				●		
RTIME		●	●			
SCALAGENT D.T.		●	●			
SCALIAN		●	●		●	●
SOTEREM						●
SOTREM SEO				●		
SPACEBEL		●	●		●	
SPACEDREAMS				●		
SPACELOCKER		●	●		●	
SPHEREA				●		●
TECALEMIT AEROSPACE				●		
TECALEMIT TUBES				●		
TECHNIP ENERGIES				●		
TELERAD	●	●	●	●		●
TELESPAIO France					●	
TERNWAVES	●					

Ground segments						
	Beacon, user terminal	Ground control center	Ground mission center	Ground segments equipment manufacturers	Orbital system operations	Ground station
THALES ALENIA SPACE	●	●	●	●	●	●
THALES SERVICES NUMERIQUES		●	●		●	
THALES SESO				●		
THRUSTME					●	
TIMELINK MICROSYSTEMS		●		●		
TRONICO	●			●		
VIVERIS	●	●	●	●		●

Balloons			
	Balloon miscellaneous (SW, ground segment, metrology, parachute, etc.)	Balloon envelopes	Balloon gondola : on-board equipment manufacturers
AFC-STAB			
ALTEN			
ATEM			
AVANTIS			
CIO SYSTEMES EMBARQUES			
COMAT			
COREDUX FRANCE			
CREATIVE EUROCOM			
DACTEM INTERNATIONAL			
ENVIRPROD - ARMELIO			
EXAIL AEROSPACE			
FLYING WHALES			
HALCYON			
HEMERIA AIRSHIP			
HIONOS			
HUMAN DESIGN GROUP			
LATECOERE INTERCONNECTION SYSTEMS			
LATESYS			
MECANO I.D.			
MICROTEC			
NERYS			
NOVELTIS			
PYROALLIANCE			
R.TECH			
RESCOLL			
RTIME			
SAP Micromécanique			
SOPHIA ENGINEERING			
SOTREM SEO			
STEEL ELECTRONIQUE			
TERNWAVES			
THALES ALENIA SPACE			
THALES SERVICES NUMERIQUES			
TRONICO			
VIVERIS			

(capabilities as declared by companies)



Transversal Competencies

Fraternité		Transversal Competencies																												
		Aerothermodynamics	AVIAT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials ; Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings- ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experimentations in microgravity
3D PLUS																														
3DCERAM																														
ABBIA GNSS TECHNOLOGIES																														
ABSOLUT SENSING																														
ABSOLUT SYSTEM																														
ACB - ATLANTEC																														
ACB - CIBEL																														
ACRI ST																														
ACTIA AEROSPACE Dinard																														
ACTIA AEROSPACE Toulouse																														
AD INDUSTRIES - MS COMPOSITES																														
ADDUP																														
ADVEOTEC																														
AFC-STAB																														
AGENIUM SPACE																														
AGILINK MICROWIRES																														
AIKO																														
AIRBUS DEFENCE AND SPACE																														
AIRBUS PROTECT																														
AKKA Technologies																														
ALATYR																														
ALCADIA ENTREPRISES																														
ALDORIA																														



Transversal Competencies

Pratermité	Transversal Competencies																												
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design / 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials / Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmospheric reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal processing	Space data processing	Signal processing	Human spaceflights and experiments in microgravity
ALLIANCE4U		●										●														●			
ALTEN	●	●	●	●			●		●	●		●	●	●					●		●			●		●			
ALTER TECHNOLOGY France						●		●		●																			
AMETRA		●													●	●													
ANYWAVES			●																										
ARCSPACE		●										●		●	●	●					●								
AREELIS TECHNOLOGIES	●							●										●		●						●			
ARIA ELECTRONIQUE						●				●	●																		
ARIANEGROUP	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●
ARKANE		●								●										●								●	
ARMOR ARSENAL		●																							●				
ASB AEROSPATIALE BATTERIES									●																				
ATEM															●				●										
ATOS		●					●					●	●						●		●						●		
AUREA TECHNOLOGY																					●			●					
AVANTIS			●	●								●		●	●						●								
AXON CABLE																●													
BERTIN ALPAO												●				●											●		
BERTIN TECHNOLOGIES		●										●		●	●					●									
BLACKLEAF													●	●											●				
CAILABS																			●										
CALLISTO												●							●										
CAPGEMINI												●																	

Transversal Competencies																														
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials ; Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity	
CEDRAT TECHNOLOGIES																														
CERFACS																														
CGI																														
CILAS																														
CIRMA																														
CIO SYSTEMES EMBARQUES																														
CLEMESSY																														
CLIX INDUSTRIES																														
CLS																														
CNIM SYSTEMES INDUSTRIELS																														
COMAT																														
COREDUX FRANCE																														
CORIOLIS																														
CREATIVE EUROCOM																														
CS GROUP																														
CT INGENIERIE																														
CYBERINFLIGHT																														
CYSEC France																														
DACTEM INTERNATIONAL																														
DASSAULT AVIATION																														
EASii IC																														
EGIDE																														
ELEMCA																														

Pratiqué	Transversal Competencies																													
	Aerothermodynamics	AV AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials ; Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity	
EMITECH-GNSS		●											●											●						
ENVIRPROD - ARMELIO	●				●									●			●													
EREMS										●																				
ERNEO									●																					
E-SPACE																							●							
ESQS - APAVE				●																										
ESSP				●									●											●			●			
ETIENNE LACROIX TOUS ARTIFICES														●		●	●													
EUROCONSULT																							●							
EUROSATCOM				●					●														●							
EUTELSAT												●						●					●				●			
EVERSAT				●					●	●		●			●	●		●			●		●							
EXAIL AEROSPACE		●	●		●				●	●		●	●					●		●				●						
EXENS GROUP																		●												
EXOTRAIL		●			●			●	●		●	●	●	●	●											●				
EXPLEO		●	●	●	●	●					●	●			●			●												
EXXELIA											●																			
FDC												●	●								●			●			●			
FLEURET															●	●														
FLUCTUS																											●	●		
FLYING WHALES	●											●																		
Gael Systems																											●			
GEO4I																											●			

Transversal Competencies

Fraternité	Transversal Competencies																												
	Aerothermodynamics	AVIAT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials : Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experimentations in microgravity
GEOMATYS																													
GETELEC																													
GISAiA																													
GMV INNOVATING SOLUTIONS																													
GRASP																													
GREENERWAVE																													
GROUPE ADF																													
HALCYON																													
HEATSELF																													
HEMERIA																													
HEMERIA AIRSHIP																													
HENSOLDT SPACE CONSULTING																													
HIONOS																													
HOOKE ELECTRONICS																													
HOTBLOCK ON BOARD																													
HUMAN DESIGN GROUP																													
HYGEOS																													
INDEPENDENT LIVING BASE																													
INFINITE ORBITS																													
InMind-VR																													
INSTITUT LAFAYETTE																													
INTERAC																													
INTRASPEC TECHNOLOGIES																													

Transversal Competencies																																	
	Aerothermodynamics	AVIAT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials ; Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity				
ISP SYSTEM																																	
JFB SPACE CONSULTING																																	
KAYRROS																																	
KERDRY																																	
KINEIS																																	
KRATOS COMMUNICATIONS																																	
L3HARRIS GEOSPATIAL																																	
LAB'S STORIES																																	
LATECOERE INTERCONNECTION SYSTEMS																																	
LATESYS																																	
LISI AEROSPACE ADDITIVE MANUFACTURING																																	
LOFT ORBITAL																																	
LUMIBIRD																																	
M3 SYSTEMS																																	
MAGELLIUM																																	
MAIASPACE																																	
MAP SPACE COATINGS																																	
MATRA ELECTRONIQUE																																	
MECANO I.D.																																	
MEDES																																	
MEDSYS																																	
MELIAD																																	
MERSEN BOOSTEC																																	

Transversal Competencies																														
	Aerothermodynamics	AV AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials : Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity	
METRAVIB ENGINEERING																														
MICRONOR																														
MICROTEC																														
MIRATLAS																														
MOSS																														
MVG (SATIMO)																														
NANOXPLORE																														
NERYS																														
NEVERHACK																														
NEXIO																														
NEXTER MUNITIONS																														
NEXVISION																														
NICOMATIC																														
NIMESIS TECHNOLOGY																														
NOVA COGITO																														
NOVELTIS																														
NUMERISAT																														
OMEGA SYSTEMES (WEB INDUSTRIES)																														
OPUS AEROSPACE																														
ORBITAL VIEWS																														
PARSIMONI																														
PCB PIEZOTRONICS																														
PHOTONIS																														



Transversal Competencies

Pratiqué	Transversal Competencies																												
	Aerothermodynamics	AVIAT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials ; Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, MLU, cryotechnics	Space data processing	Signal processing	Human spaceflights and experimentations in microgravity
PIXSTART																													
PLANEXUS																													
PLUG IN																													
POSITHÔT																													
PYROALLIANCE																													
PYTHEAS TECHNOLOGY																													
R.TECH																													
RADIALL																													
RAKON																													
RESA																													
RESCOLL																													
RIDEI																													
RTIME																													
SAFRAN.AI																													
SAFRAN AIRCRAFT ENGINES																													
SAFRAN ELEC & DEF																													
SAFT																													
SAP Micromécanique																													
SATCONSULT																													
SCALIAN																													
SCASSI																													
SCIENTEAMA																													
SECTOR																													



Transversal Competencies

Transversal Competencies	Pratermité																												
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials : Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experimentations in microgravity
SEGULA TECHNOLOGIES	●	●	●	●							●			●	●									●					
SELHA Group			●			●			●	●									●										
SEREME		●																											
SERMA MICROELECTRONICS						●				●				●					●					●					
SERMA TECHNOLOGIES		●		●		●		●		●				●					●										
SILIOS TECHNOLOGIES		●																											
SMAC														●	●	●													
SODERN										●												●							
SODITECH																●								●					
SOGECCLAIR AEROSPACE							●					●		●	●				●					●		●			
SOKARIS INGENIERIE												●		●	●	●								●					
SOPEMEA		●		●	●				●	●		●		●				●											
SOPHIA ENGINEERING		●								●		●			●		●		●										
SOTEREM																●													
SOTREM SEO		●							●	●									●										
SPACEBEL		●					●	●				●	●								●			●		●			
SPACEDREAMS												●																	
SPACELOCKER																●													
SPACEPHARMA																												●	
SPARTAN SPACE																												●	
SPHEREA		●			●					●		●						●						●					
SPIRIT TECHNOLOGIES	●	●												●	●									●					
STEEL ELECTRONIQUE										●																			



Transversal Competencies

Fraternité	Transversal Competencies																												
	Aerothermodynamics	AV AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials : Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experimentations in microgravity
STIRWELD																													
STMICROELECTRONICS																													
SYLPHAERO																													
SYMETRIE																													
SYNTONY																													
SYSTRONIC																													
TECHNATIUM																													
TECHNIP ENERGIES																													
TELEDYNE E2V																													
TELERAD																													
TELESPAZIO France																													
TEMISTH																													
TERAKALIS																													
TERNWAVES																													
THALES ALENIA SPACE																													
THALES DIS																													
THALES SERVICES NUMERIQUES																													
THALES SESO																													
THE EXPLORATION COMPANY																													
THERMOCOAX																													
THIOT INGENIERIE																													
THRUSTME																													
TIMELINK MICROSYSTEMS																													

Pratémis2

Transversal Competencies																													
	Aerothermodynamics	AVI AIT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design ; 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials ; Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, MU, cryotechnics	Space data processing	Signal processing	Human spaceflights and experimentations in microgravity
TRAD		●		●		●			●		●		●	●															
TRONICO		●	●	●	●	●				●		●							●										
UNITED MONOLITHIC SEMICONDUCTORS (UMS)						●													●										
VISHAY						●													●										
VISIOTERRA				●								●														●			
VIVERIS		●		●						●		●									●		●						
WATT&WELL					●	●		●	●	●											●								
WEEROC						●																							

Consulting in the space
domain

	Assistance in setting-up projects and contracts	Assistance to projects and contracts follow-up	Market, concept, feasibility and engineering studies of space systems	Support and training to operations and exploitations of space systems
AIRBUS PROTECT			●	●
ALDORANE	●	●	●	
ALLIANCE4U	●	●	●	●
ARCSPACE			●	
CAPGEMINI		●	●	●
CES WORKS	●	●	●	
CGI	●	●	●	●
ESQS - APAVE		●		●
EUROCONSULT	●	●	●	●
JFB SPACE CONSULTING	●	●	●	
LAB'STORIES		●	●	
NERYS		●		
NOVA COGITO	●		●	
PROCUREEZY	●			
PVA CONSEIL & DÉVELOPPEMENT			●	●
SATCONSEIL	●	●		●
SATCONSULT	●	●	●	●
SCIENTEAMA	●	●	●	
SEGULA TECHNOLOGIES	●	●		
SPACEDREAMS			●	
SPACELOCKER	●			
SYLPHAERO			●	