



**Escuela Técnica Superior de Ingeniería Aeronáutica y del Espacio**  
**UNIVERSIDAD POLITÉCNICA DE MADRID**  
Subdirección de Relaciones Exteriores

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Within the framework of its recruitment plan which offers **different positions** for the enthusiasts of Space:

## **Thales Alenia Space (France)**

wishes to increase the diversity of its profiles.

The skills required are in the fields of **electronics** (analog, digital, microwave , photonics), **software, structural and thermal mechanical, system** (telecom, observation, sciences, navigation).

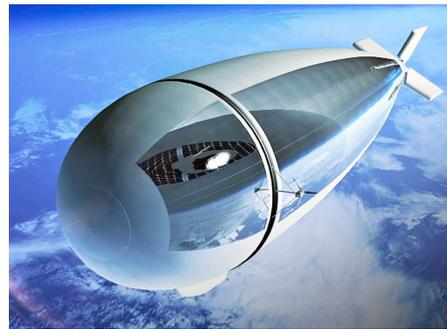
The answers (resume and cover letter) are expected to the email:

[dsp-fr-emploifrance@thalesaleniaspace.com](mailto:dsp-fr-emploifrance@thalesaleniaspace.com)

You will find attached a presentation brochure of Thales Alenia Space.



Thales Alenia Space, a joint venture between Thales (67%) and Finmeccanica (33%), is a key European player in space telecommunications, navigation, Earth observation, exploration and orbital infrastructures. Thales Alenia Space and Telespazio form the two parent companies' "Space Alliance", which offers a complete range of services and solutions. Because of its unrivaled expertise in dual (civil/military) missions, constellations, flexible payloads, altimetry, meteorology and high-resolution optical and radar instruments, Thales Alenia Space is the natural partner to countries that want to expand their space program. The company posted consolidated revenues in excess of 2 billion euros in 2014, and has 7,500 employees in 7 countries.



**Telecommunications** Thales Alenia Space is one of the world's leading designers of telecommunications satellites, platforms and payloads. The telecom segment accounts for half of the company's business. The company is also the worldwide leader in the fields of telecommunications constellations in low or medium Earth orbit.

**Earth Observation** Thales Alenia Space is a leader in Earth observation, based on its high or very-high resolution optical and radar payloads. The JV has established a position as a major supplier in export markets, covering military, dual and civilian missions: intelligence gathering, target designation, mapping, crisis management, meteorology, oceanography, climatology, etc. The company also proposes a very innovative concept, Stratobus, multimissions autonomous stratospheric platform halfway between drones and satellites.

**Science and exploration** Like ExoMars, Thales Alenia Space was also prime contractor for Herschel and Planck, the two largest space observatories ever built in Europe. We also developed and integrated Corot, the French exoplanet hunter, and

made 25 parabolic antennas as part of Europe's contribution to the ALMA program in Chile. We also played a lead role in the recent Rosetta-Philae comet landing mission, in particular taking charge of the assembly, integration and testing of the Rosetta probe, as well as Europe's Bepi-Colombo mission to explore the planet Mercury. Thales Alenia Space has celebrated recently the 10<sup>th</sup> anniversary of the Cassini-Huygens mission, including the landing on Saturn's largest moon, Titan, by the Huygens probe, built by Thales Alenia Space as prime contractor. Our next scientific challenge is the European program Euclid, designed to help further our understanding of dark matter.

**Navigation** Thales Alenia Space is the pioneer in European satellite navigation, as prime contractor for the Egnos augmentation system, the precursor to Galileo. We play a major role in its development, with system support for Galileo and a lead role in the in-orbit validation phase, not only through the first four satellites to be launched, but above all by building the Mission Ground Segment for the complete constellation.

**Orbital infrastructure & space transport** Thales Alenia Space is a major contributor to the International Space Station (ISS), responsible for over half of its pressurized volume, and played a major role on the ATV (Automated Transfer Vehicle) cargo vessels for ESA and on NASA's Cygnus program, which will also bring supplies to the ISS. Thales Alenia Space has leveraged its unrivaled expertise in orbital infrastructures and space transport to meet new challenges, including the IXV, a huge success that paves the way to future European reentry missions, and the pressurized compartment on SOAR (Sub-Orbital Aircraft Reusable), which will carry both scientific experiments and astronauts. Thales Alenia Space will also be a leading contributor to the Orion Multi-Purpose Crew Vehicle (MPCV) being developed by NASA.

**Advanced electronics** Thales Alenia Space contributes to Europe's policy for independent access to space by supplying advanced electronics for the Ariane launcher family, and the onboard range safety system for Soyuz launchers operated at the Guiana Space Center.