



EU-Japan Partnering Support Mission in the Space Sector - Tokyo, 9 – 11 March 2015



Contact Details

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Ricardo Patricio

Participant Profile

Ricardo Patricio is the CEO of Active Space Technologies since 2013, and his activities include business development.

Ricardo graduated in 2001 in Mechanical Engineering from the University of Coimbra. In 2001-2002 he was a Development Engineer at CIE - Plasfil, Portugal. In 2004 he moved to The Netherlands where he was a Thermal Engineer at the European Space Agency. In 2004 he co-founded Active Space Technologies. He served at Active Space Technologies as the CTO from 2004 to 2012. He has been acting as CTO of spin-off Active Aerogels since 2013. He holds a position as an external consultant at ITER Organization since 2014.

Company Profile

Headquarters and branch locations: Portugal, German, The Netherlands, UK

Shareholders: Bruno Carvalho, Ricardo Patricio

Mission: Active Space Technologies is a European based company operating in space, aeronautics, nuclear, defence, and industry.

Active Space Technologies offers bespoke electro-mechanical systems for extreme harsh environments, such as instruments and mechanisms, actuators and wireless sensing systems. Our systems are qualified for high-g, high temperature radiation environments.

Our core activities focus on:

- space instrumentation,
- structural and thermal control systems for space applications,
- harsh environment monitoring and control systems for aerospace applications,
- remote handling systems for hazardous and radiation environments,
- automated systems for industry.

Technology portfolio: Enthalpy Reservoirs (cryogenic energy storage units), thermal switches, aerogel

Commercial footprint: Airbus, Thales Alenia Space, DLR, OHB, European Space Agency, ITER,





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Value proposition for the Japanese market

Active Space Technologies offers the following thermal control products for space applications:

- ESU: attachable to cryocoolers via embedded thermal switch, provides 1 hours of vibration free observations at 20K (0.2kg) or 6K (0.2kg)
- Peltier devices: uniquely tested and qualified for space, developed specifically for LNAs.
- Aerogel : more flexible than competitors, extremely hydrophobic, operating temperature from 20K to 670K, can be applied as a spray on complex geometries. Other uses include dielectric materials for RF filters.

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