

ALISIO 1 y 2 – nanosats 3U+ SWIR para EO



Credit: ESA

Álex Oscoz

Carlos Colodro
José Javier Díaz
Lourdes Garrido
Roberto López
Antonio Maudes
Pablo Redondo

José Carlos Sanluis
Ignacio Sidrach
Samuel Sordo
Lucía Suárez
Sergio Velasco
Alfonso Ynigo

IAC



Sede Principal



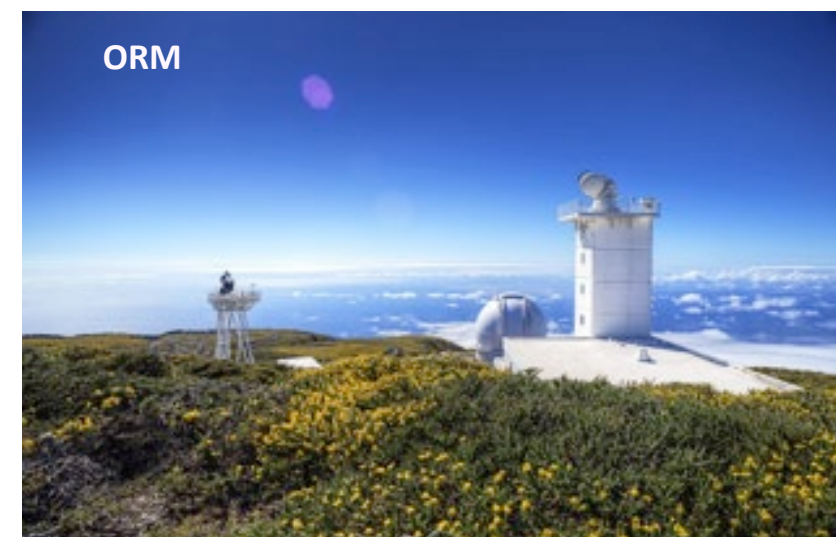
CALP



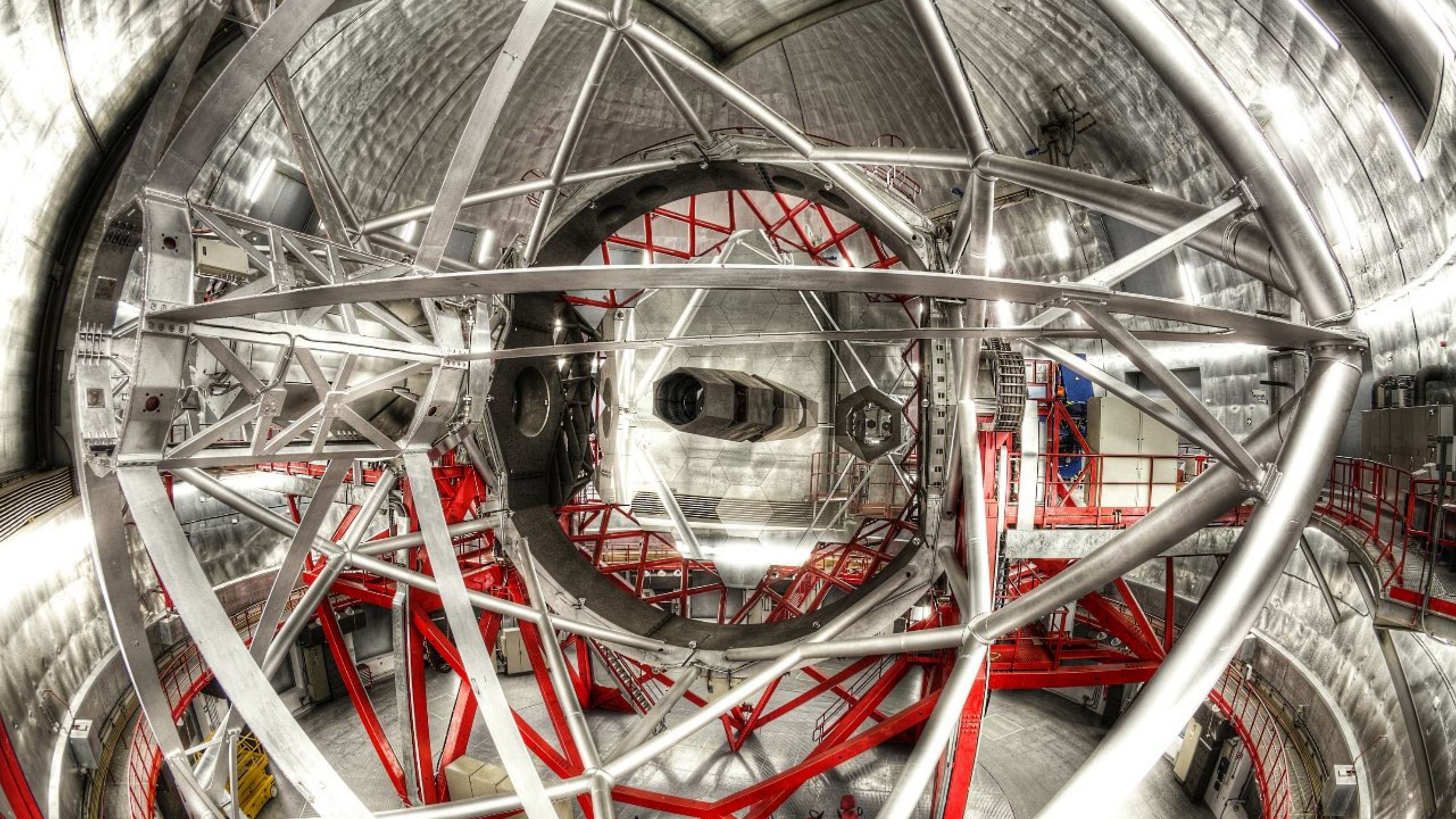
IAC Tec



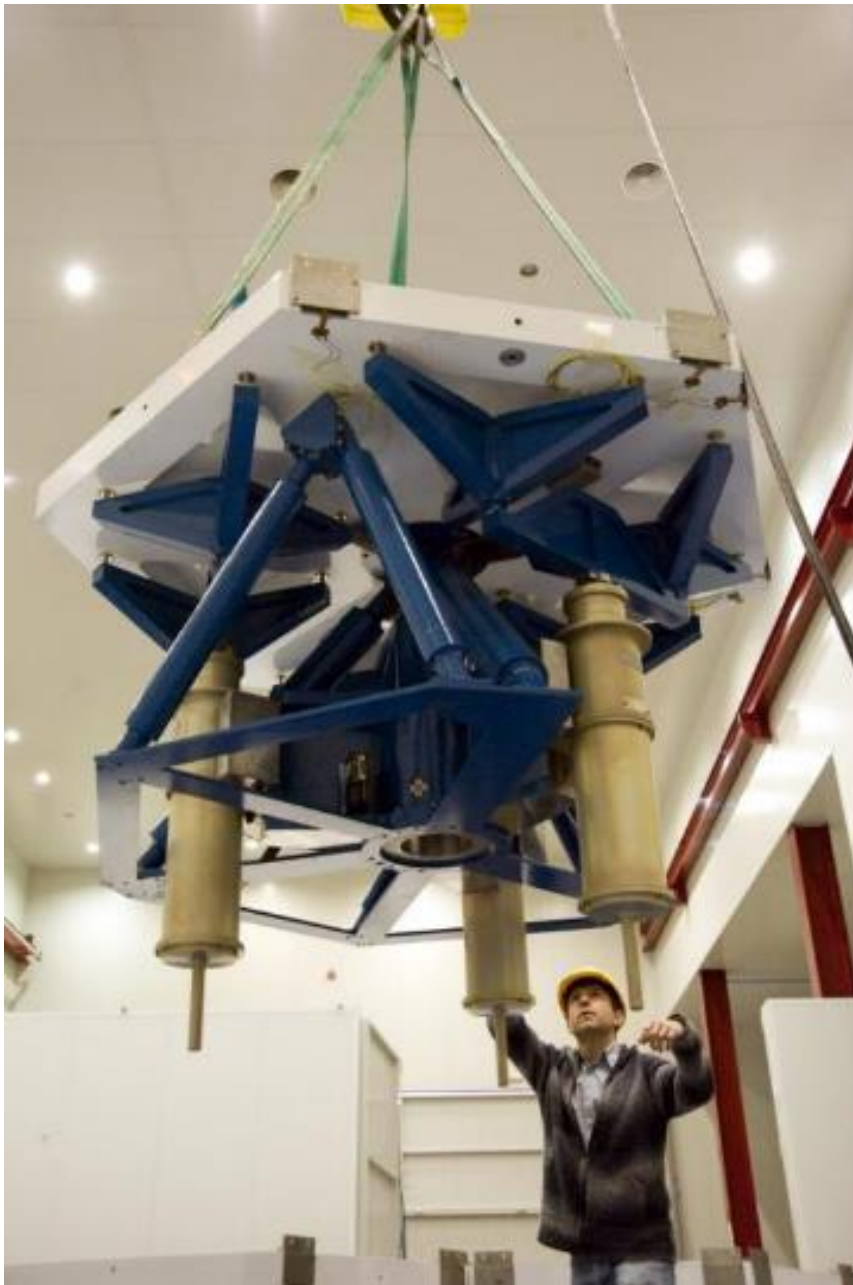
OT



ORM



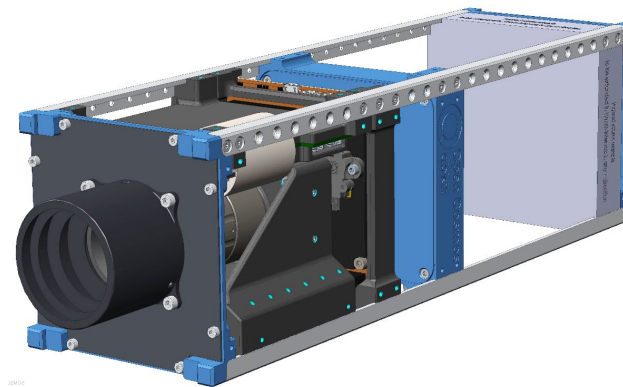
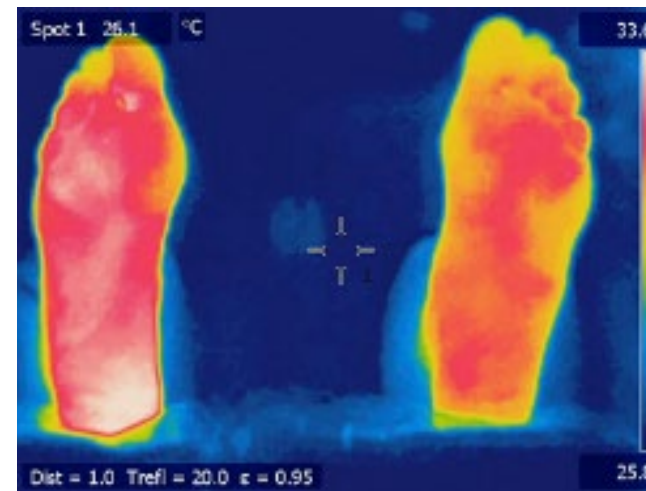






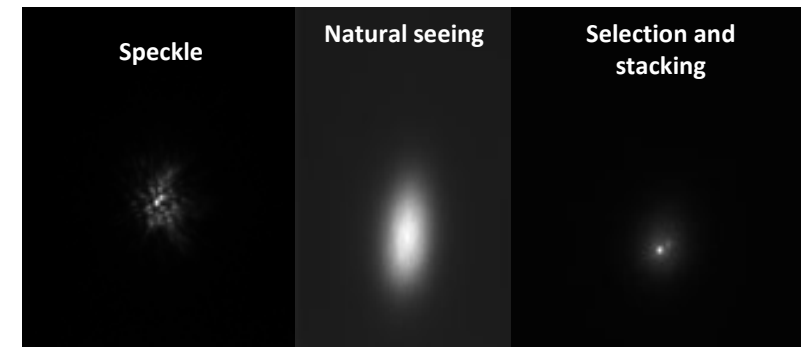
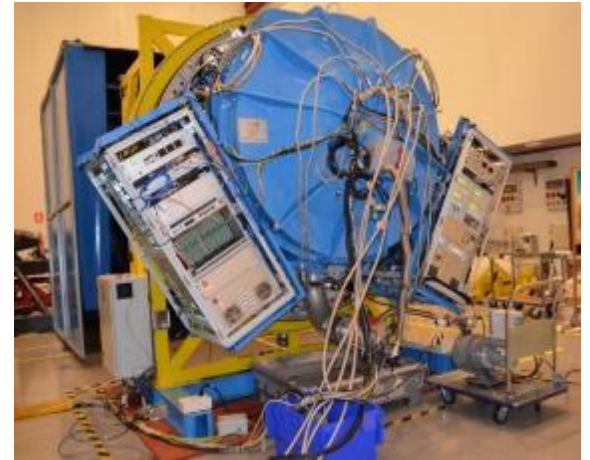
Espacio de cooperación con empresas

- Creación de tejido empresarial y empleo
- Relacionado con ciencia y tecnología
- Autosuficiente a largo plazo
- Priorizando economía regional
- Con el apoyo del IAC



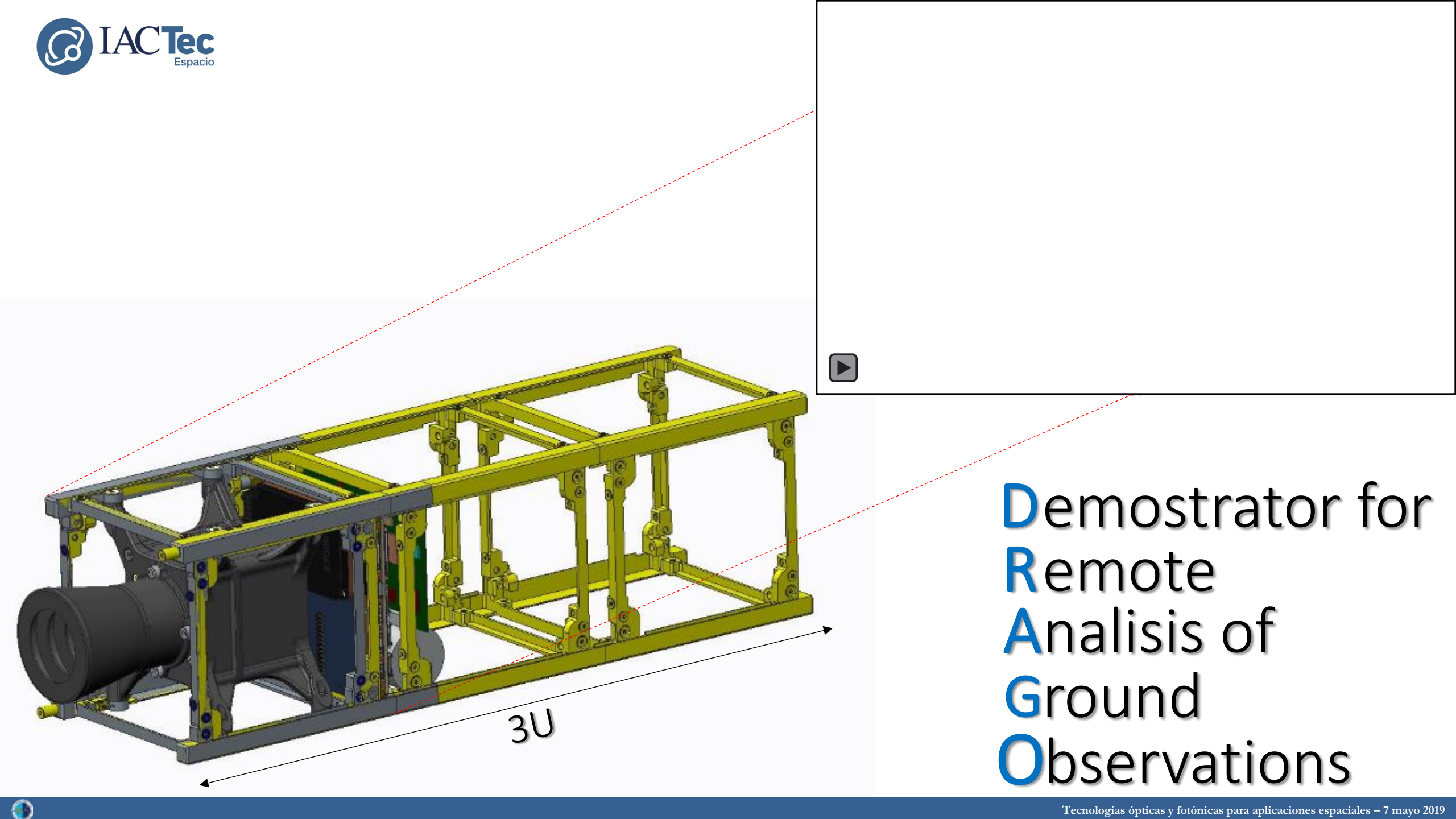
Nuestras áreas de excelencia

- 1 – Somos fabricantes de telescopios
- 2 – Y expertos en detectores (visible e IR)
- 3 – Nuestra principal herramienta es la luz
- 4 – Sabemos cómo mejorar la calidad de nuestras imágenes....
- 5 – ... y cómo transmitir información

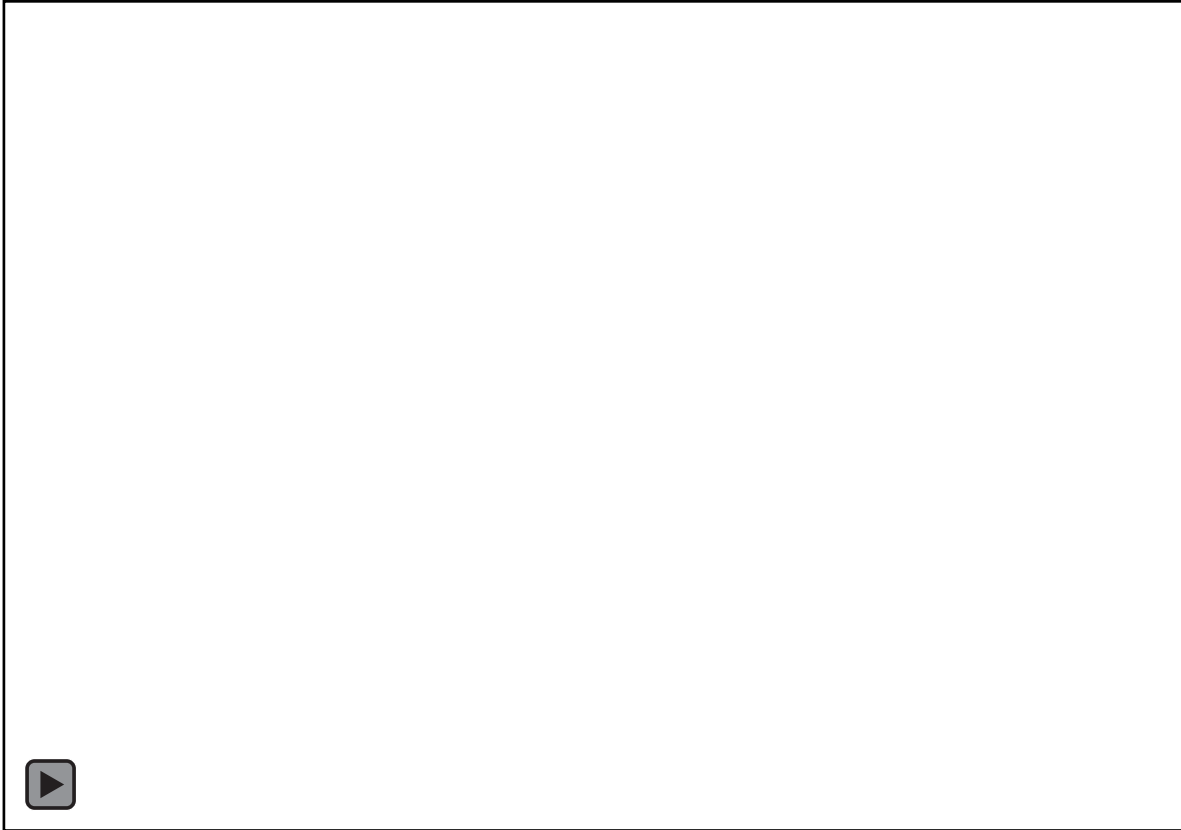
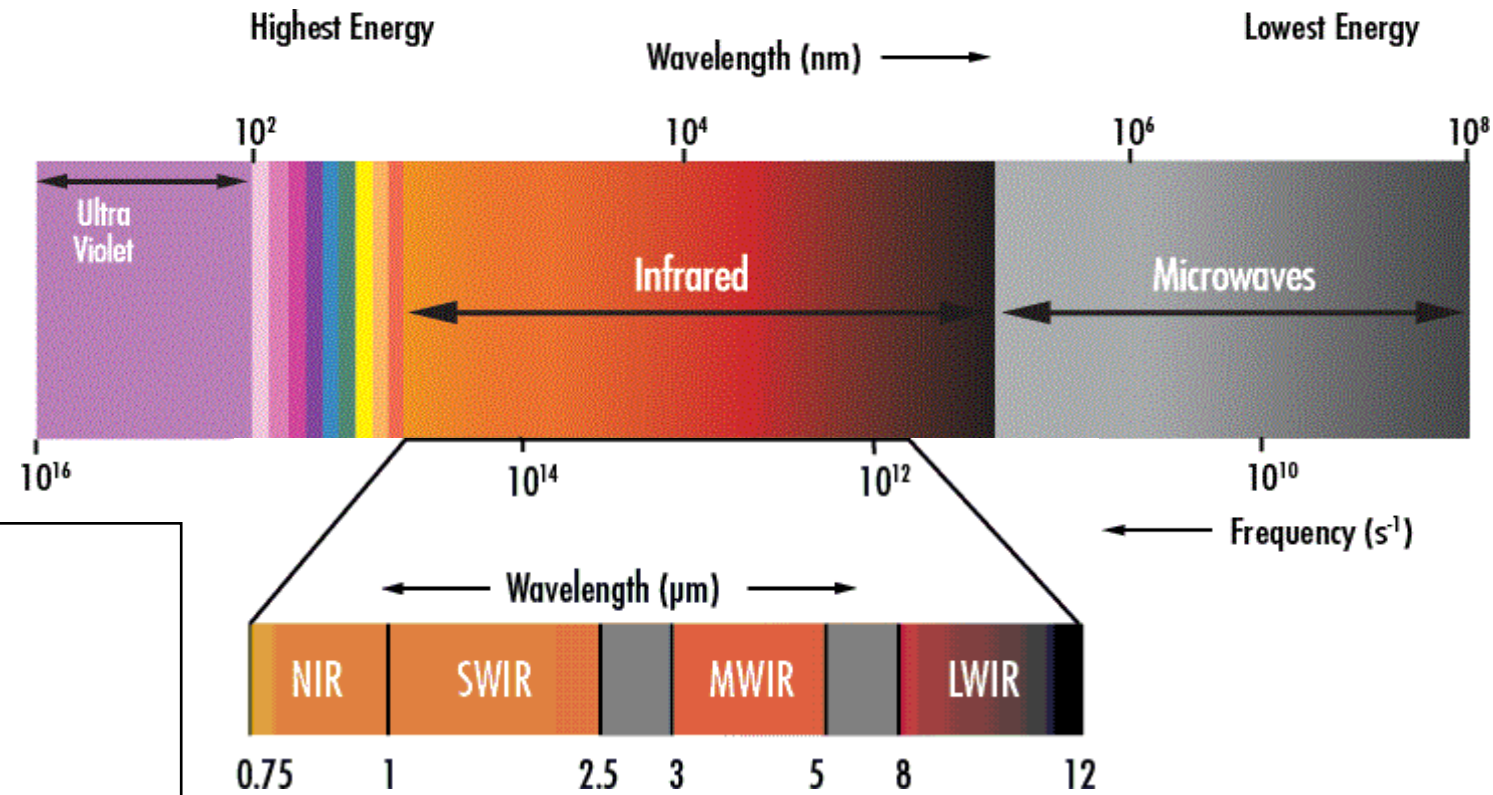


Advanced Land Imaging Satellite for Infrared Observations






Demonstrator for
Remote
Analysis of
Ground
Observations



Rango SWIR

Short Wave Infrared Region

- 
- A satellite image of the Canary Islands, showing the islands in the Atlantic Ocean. The islands are depicted in shades of green and brown, indicating vegetation and land. The surrounding ocean is dark blue, and the sky is black. The image is used as a background for the text.
- 1- Monitorización de la Desertización
 - 2- Caracterización y Seguimiento de Nubes
 - 3- Detección de Puntos Calientes
 - 4- Medida del Impacto Ambiental Oceánico
 - 5- Control de Inundaciones

Rango SWIR

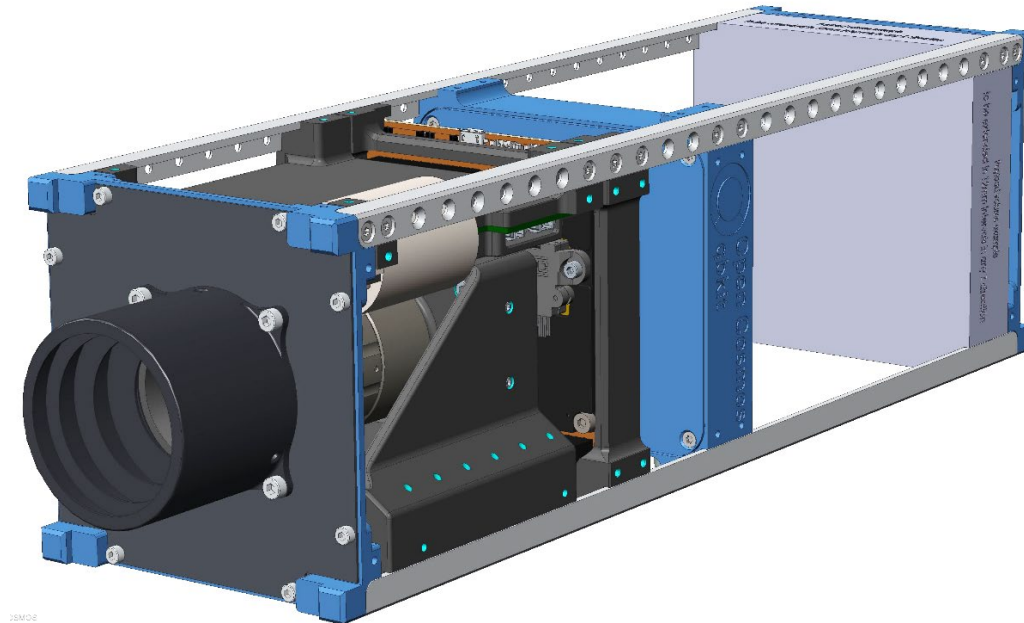
Short Wave Infrared Region



<https://www.digitalglobe.com/products/swir-imagery>

DRAGO....

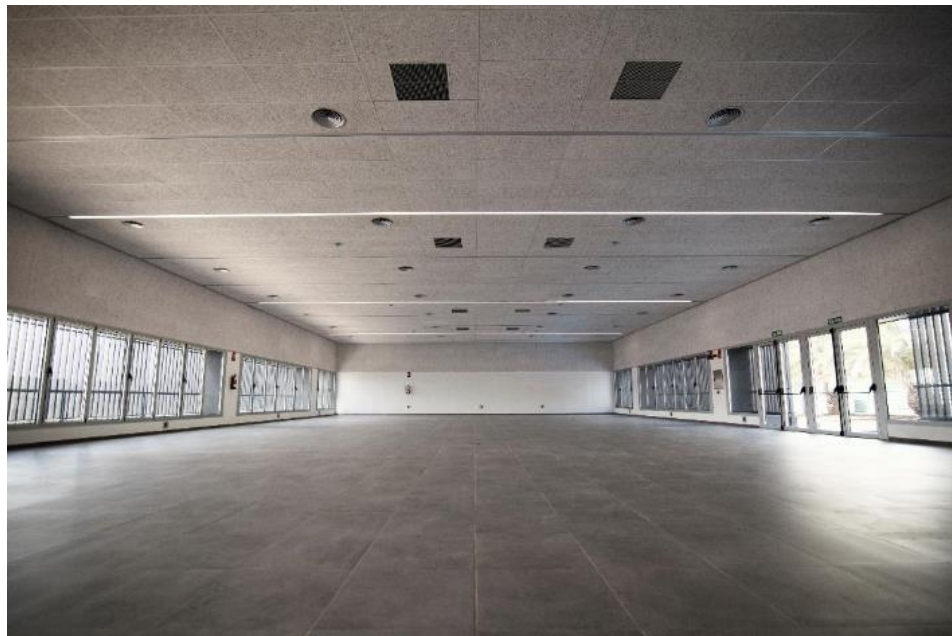
Orbit height range (km)	500 - 600
Swath @ 600 km	>200 km
Resolution @ 600 km	<360 m
Temperature range (°C)	-30 to +70
Ionizing radiation tolerance (krad)	>30
Single Event Effect detection and recovery (MeV cm ² mg ⁻¹)	>20
Expected life	>1 year
Sensor technology	inGaAs
Observable bands (µm)	1.1 and 1.6
Frame rate (fps)	Up to 100
Signal to Noise Ratio (SNR)	>100
Mass DRAGO (g)	<1100
Mass MELISA (g)	<200
Power consumption (W)	<5.5
Envelope DRAGO (mm)	96x96x1200



... y MELISA, demostrador de LISA = ALISIO 1 - 2020

DRAGO + cámara visible = ALISIO 2 - 2021





¡ESTAMOS CONTRATANDO!



STAY TUNED!

IAC Tec
INSTITUTO DE ASTRONÓMICA DE CANARIAS

HI-TECH JOB OPPORTUNITIES FOR ENGINEERING TALENT IAC Tec 2018

The Instituto de Astronómica de Canarias (IAC) aims to offer more than 30 engineering positions to be filled during 2018. These will involve work on five major technology projects. From October 2017 several calls for 2-4 year contracts will be issued. The IAC is a Severo Ochoa Center of Excellence, with the mission to carry out frontier scientific and technological projects, which currently employs more than 70 high level engineers. IAC Tec is a framework for technological and industrial collaboration.

applications and inquiries: www.iactec.iac.es

<p>CTA Cherenkov Telescope Array</p> <p>Early 2018 STAY TUNED!</p> <ul style="list-style-type: none"> 1 Project Manager 1 Construction Engineer 1 Mechanical Engineer 1 Electronic Engineer <p>Mid 2018</p> <ul style="list-style-type: none"> 1 Mechanical Engineer 1 Robotics Engineer 1 Software Engineer 	 	<p>EST European Solar Telescope</p> <p>Early 2018 STAY TUNED!</p> <ul style="list-style-type: none"> 1 Project Manager 1 System Engineer 2 Astronomical Engineers 1 Control Engineer <p>Mid 2018</p> <ul style="list-style-type: none"> 2 Optomechanical Engineers 2 Development Engineers 2 Adaptive Optics Engineers 2 Astronomical Engineers 2 Control Engineers
<p>Micro-Satellites</p> <p>Early 2018 STAY TUNED!</p> <ul style="list-style-type: none"> 1 Systems Engineer 2 Software Engineers 2 PhD Students 3 Electronic Engineers 1 Mechanical Engineer 	 	<p>LT2 4 m Robotic Telescope</p> <p>Early 2018 STAY TUNED!</p> <ul style="list-style-type: none"> 1 Mechanical Engineer 1 Electronic Engineer 1 Software Engineer 1 Systems Engineer
<p>Medical Imaging Technologies</p> <p>Early 2018 STAY TUNED!</p> <ul style="list-style-type: none"> 1 Software Engineer 1 Electronic Engineer 1 Mechanical Engineer 		









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