ARCSPACE

Sustainable & Performant Space Infrastructure

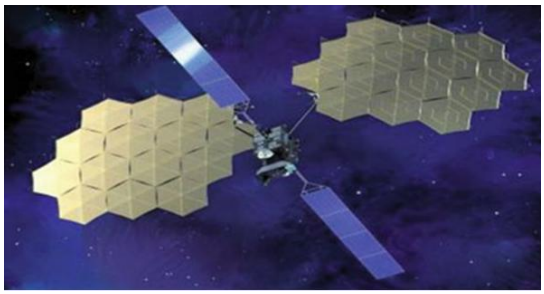
Space Robotics and Computer Vision Software Engineer
4 to 6 months internship, Paris/Ile-de-France

Internship start date: January or February 2027

Contact: Contact@arc-space.com, +33-6-45-33-21-60

About ArcSpace:

ArcSpace provides subsystems for in-space servicing, assembly and manufacturing applications. The company's first solution is a proprietary robotic joining and cutting tool and process; the capabilities it provides to act in space are key to cost-effective space infrastructure and the growth of the Space economy, while solving existing market needs from on-orbit capture to end-of-life management. Through incremental growth, ArcSpace will expand its solutions to ambitious projects such as space-based solar power, lunar infrastructure and in-space manufacturing.



Job description:

As part of a dynamic and ambitions startup team and in collaboration with space EU stakeholders, you are a passionate and can-do collaborator who will support the development of the company's robotic solutions. The day-to-day duties require developing of the software for in-orbit manipulations, defining the requirements for corresponding units, validation, verification, tests, manufacture, and in-orbit operations simulations.

Your profile:

REQUIREMENTS:

1. Programming languages — C, Python, Perl
2. Robotics and computer vision standards knowledge (i.e., ROS2).
3. Microcontroller programming (i.e., Arduino)
4. Robotic arms and end effectors general knowledge and (semi)automatic operations (i.e., movements, current state, health, risks prediction, collision avoidance, etc.)
5. Computer vision (i.e., object definition, distance/size measurements, oscillations, go/no-go decisions, etc.)
6. Sensor data integration in controls pipeline.
7. Real-time software systems general knowledge.
8. Writing, validating, and verifying requirements for hardware (robotic arms, computer vision tools, onboard computers, supporting units) and supporting software.
9. English proficiency B1.

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NICE TO HAVE. Experience and knowledge with the following are valued:

1. Space projects (i.e. orbital mechanics, low gravity nuances, thermal ranges, radiation, etc.)
2. ESA standards and approaches.
3. Mechanical and structural behavior of moving and/or flexible objects.
4. Eligibility to work in the EU.

We encourage you to apply even if you believe you do not meet all the criteria. A positive attitude, courage, and willingness to learn something new may are preferred over hard skills.

Why work at ArcSpace:

- Company values: Fairness – Efficiency – Teamwork – Excellence.
- Significant and visible personal contribution to the growth of in-space servicing solutions.
- Work within the Paris-Saclay campus cluster, the leading R&D center in France.
- Autonomy in work and diversity of tasks.
- One day of teleworking per week, flexible hours.

Overview of the recruiting process:

- Send your resume & motivation email/letter to **Contact@arc-space.com**
- 30 min video interview with the executive team.
- Physical interview and technical discussion with the co-founders.
- Background check.