

# SAFRAN EXPLORE

Smart Materials

## APPLY NOW TO SAFRAN'S OPEN INNOVATION PROGRAM!

**Take on key challenges:** advanced materials, additive manufacturing, surface engineering, or innovative industrial processes.

**Collaborate with a global aerospace leader.** Innovators, be the game changers!

**Join this international program, guided by industry experts.**

**MORE INFORMATION IS AVAILABLE ON THE  
CHALLENGE WEBSITE**



<https://www.alcimed.com/safran-explore-smart-materials>

# 5 CHALLENGES

## Challenge #2 Intelligence for M&P

- In-Silico performance testing
- AI-Driven material design
- AI-driven material architecturing
- Lab 4.0: data management & structuring

## Challenge #3 M&P for electrical applications

- High-temperature and high-voltage materials
- Magnetic materials
- Alternatives to PFAS/PFA
- Multi-material additive manufacturing

## Challenge #4 Circularity and recycling

- Circularity for critical metals
- Recycling of carbon fibers
- Materials traceability & risk Management
- Recycling of hybrid materials

## Challenge #1 Material systems of the future

- Multifunctional bulk materials
- Advanced manufacturing processes
- Sustainable alternatives
- Material systems for surface solutions

## Challenge #5 Inspection, control and maintenance

- Process monitoring and control
- Dimensional & material health portable and on-wing inspection
- Advanced inspection for composites

# CHALLENGES TIMELINE

**Applications evaluation**  
Selection of ~20 applicants

**Collaboration definition**  
with Safran's Team

**April - June**

**June  
August**

**September**

**October  
November**

**December**

**Call for Applications**

**Top 20 Pitch session**

**Explore Days in France**