

**AVVISO PUBBLICO PER L'ACQUISIZIONE DI MANIFESTAZIONE DI INTERESSE CON  
CONTESTUALE PRESENTAZIONE DI PREVENTIVO, FINALIZZATA ALL'AFFIDAMENTO  
DI INCARICO PROFESSIONALE DI CONSULENZA**

Si rappresenta che Piaggio Aero Industries S.p.A. in A.S. intende raccogliere manifestazioni di interesse, con contestuale presentazione di preventivo, finalizzate all'affidamento di incarichi professionali di consulenza nell'ambito della Direzione Tecnica per n. 2 Flight Test Engineer, n. 1 Flight Simulator Engineer, n. 1 Experimental Flight Line Coordinator, n. 1 Flight Test Instrumentation Department Coordinator e n. 1 Hydraulics & Cold Mechanics System Engineer per l'anno 2023, in accordo alla Skill Description allegata alla presente.

Il preventivo ed i relativi CV devono pervenire, a pena di esclusione, entro e non oltre le ore 12,00 del giorno 25 novembre 2022, esclusivamente a mezzo PEC all'indirizzo [piaggioaeroamministrazionestraordinaria@piaggioaero.it](mailto:piaggioaeroamministrazionestraordinaria@piaggioaero.it)

I preventivi privi di sottoscrizione e/o senza CV, così come quelli pervenuti successivamente alla data sopra indicata non saranno tenuti in considerazione.

Si fa presente che è precluso il conferimento di incarichi professionali a soggetti per i quali sussista una causa di incompatibilità ex art. 38, comma 1-bis del D.Lgs. 270/1999 e/o conflitti di interesse con l'organo commissariale e/o con altri organi della procedura.

## PIAGGIO AEROSPACE in A.S. – PUBLIC SEARCH FOR SKILLED PROFILE

In framework of some important contract development Piaggio Aerospace in A.S. is looking for skilled resourced to empower the current workforce for the accomplishment of the activities and milestones planned for year 2023. The public search is addressed to the following profile

### **N. 1 FLIGHT SIMULATOR ENGINEER (Villanova d'Albenga site):**

In the framework of a Flight Simulator program to be developed in cooperation with an external partner the resource shall accomplish the following tasks:

- Verify that the deliverable items level from external supplier are adequate as per technical requirements (HLTR/SOW);
- Control the supplier delivery process and relevant schedule constraint;
- Participate in the process of reviewing and verifying the Engineering Department documentation to be provided to the customer;
- Participate in substantial and final completion inspections (Engineering FAT, OSAT);
- Participate to the certification/homologation process
- Supervise the Simulator integration and set-up (Ready for Training) at supplier site;
- Participate to the technical supplier internal review.

#### **REQUIRED SKILLS:**

- Familiar with the Test and Verification phases and process in aeronautical field;
- Familiar with certification process in aeronautical field;
- Fluent Technical English language (written and spoken);
- MS Office 2010 package (good level).

#### **PREFERRED EDUCATION/QUALIFICATION:**

- Degree in aerospace engineering;
- Demonstrable previous experiences (minimum 5-7 years) in civil certification and military homologation process for aircraft and/or Flight Simulator.

## **N. 1 FLIGHT TEST INSTRUMENTATION DEPARTMENT COORDINATOR (Sestri Ponente site):**

In the framework of a Flight Simulator and new P180 version programs flight test activities to be undertaken on Company Experimental Aircraft the resource shall accomplish the following tasks:

- Design the FTI architecture and data acquisition system for experimental data acquisition on experimental aircraft:
- Define and select the data acquisition devices, sensors and associated wiring/cabling;
- Coordinate the technical documentation preparation needed for hardware implementation on aircraft
- Develop ground test procedures, instrumentation and configuration needed to successfully perform assigned testing.
- Develop specialized test procedures for maximum test efficiency.
- Supervise the shop floor activities for FTI changes implementation on aircraft
- Coordinate the FTI activities in control room during experimental flight execution
- Supervise the data download from FTI after experimental flight
- Coordinate the technical documentation for recorded data to be provided to Engineering Specialist area
- Participate to the internal review, flight briefing and debriefing.

### **REQUIRED SKILLS:**

- Familiar with the Experimental Test phases and process in aeronautical field;
- Familiar with Flight Test Instrumentation and Data Acquisition System;
- Familiar with Data Reduction software
- Fluent Technical English language (written and spoken);
- MS Office 2010 package (good level).
- CATIA V5 knowledge

### **PREFERRED EDUCATION/QUALIFICATION:**

- Degree in aerospace or electrical/electronic engineering;
- Demonstrable previous experiences (minimum 5-7 years) in FTI management process.
- Demonstrable previous experience in laboratory test execution and in aircraft ground/flight testing

## **N. 1 SENIOR FLIGHT TEST ENGINEER (Sestri Ponente site):**

In the framework of a Flight Simulator and new P180 version programs flight test activities to be undertaken on Company Experimental Aircraft the resource shall accomplish the following tasks:

- Provide functional area expertise for test pilots in real time as certified control room personnel.
- Provide support as control room Test Conductor for test operations.
- Coordinate tests in flight and on ground on aircraft and from mission control rooms.
- Develop test plans, test risk assessment, flight test cards, test schedules, and test procedures in support of flight operations.
- Coordinate with flight technologies and systems engineering teams to finalize Test Specifications and Flight Test program
- Develop test procedures, gave mission briefings & conduct test from control room and onboard P180 Experimental Airplane
- Support and coordinate flight test activities through real-time data monitoring and post-test data analysis.
- Collect data and complete data analysis to support aircraft certification.
- Perform test data analysis and systems evaluation.
- Develop computer based data analysis tools for specific flight test data and Test Point Efficiency tracking using both MATLAB and Excel.

### **REQUIRED SKILLS:**

- Familiar with the Experimental Test phases and process in aeronautical field;
- Familiar with Flight Test Execution and flight civil certification and military homologation process
- Familiar with Data Analysis software
- Familiar with AFM
- Fluent Technical English language (written and spoken);
- MS Office 2010 package (good level)

### **PREFERRED EDUCATION/QUALIFICATION:**

- Degree in aerospace engineering;
- Previous flight test engineer with a qualification to perform tests for a civil or military organization including prior Developmental Test (DT) or Operational Test (OT) experience is highly desired; minimum 7-10 years) in Flight Test Program execution and minimum 100 experimental hours flown on experimental airplane.
- Experience as a test conductor, test director, or test pilot/navigator for an experimental airplane is desired.
- Experience with and knowledge of testing of aircraft flight mechanics, systems, ground, and flight test is highly desired and experience in CS23/FAR23 certification process
- Experience with and knowledge of testing turboprop engines in aerospace applications, to include ground and flight test is highly desired.
- A background in / experience with system-level safety decision-making, risk assessment, and Test Hazard Analysis is highly desired.
- Must be able to lead a team of engineers to solve complex engineering and integration problems.
- Flight Test Engineer Qualification.

## **N. 1 FLIGHT TEST ENGINEER (Sestri Ponente site):**

In the framework of a Flight Simulator and new P180 version programs flight test activities to be undertaken on Company Experimental Aircraft the resource shall accomplish the following tasks:

- Provide functional area expertise for test pilots in real time as certified control room personnel.
- Provide support for test operations.
- Provide supports for tests in flight and on ground on aircraft and from mission control rooms.
- Develop test procedures, participate to mission briefings & and test from control room and onboard P180 Experimental Airplane
- Support flight test activities through real-time data monitoring and post-test data analysis.
- Collect data and complete data analysis to support aircraft certification.
- Perform test data analysis and systems evaluation.
- Develop computer based data analysis tools for specific flight test data and Test Point Efficiency tracking using both MATLAB and Excel.

### **REQUIRED SKILLS:**

- Familiar with the Experimental Test phases and process in aeronautical field;
- Familiar with Flight Test Execution and flight civil certification and military homologation process
- Familiar with Data Analysis software
- Familiar with AFM
- Fluent Technical English language (written and spoken);
- MS Office 2010 package (good level)

### **PREFERRED EDUCATION/QUALIFICATION:**

- Degree in aerospace engineering;
- Demonstrable previous experiences (minimum 5 years) in Flight Test Program execution and minimum 50 experimental hours flown on experimental airplane
- Familiar with CS23/FAR23 certification process

## **N. 1 EXPERIMENTAL FLIGHT LINE Coordinator (Sestri Ponente site):**

In the framework of a Flight Simulator and new P180 version programs flight test activities to be undertaken on Company Experimental Aircraft the resource shall accomplish the following tasks:

- Demonstrate a deep understanding aircraft system design and operation, including aircraft configuration management
- Ensure the complete management of the experimental aircraft for its Airworthiness.
- Review and keep updated the documentation feature of the aircraft.
- Ensure the introduction on the aircraft under management changes and/or controls required by applicable S.B., A. D.
- Supervise the installation of equipment necessary to run the test flights by providing clear, concise instructions to operations staff or support personnel on a daily basis.
- Guarantee work execution according to EASA and Company Quality procedures and instructions from Project engineer, Crew Chief or supervisor
- Perform activities and meet the goals and objectives established by the Design Office and Flight Test organization and maintain a broad perspective of operational conditions affecting the safety of the assigned activities as a matter of highest priority
- Request and coordinate the activities of ordinary and extraordinary maintenance planned with internal/external Authorized Institutions.
- Record Keeping of maintenance operation performed
- Employ technical personnel properly trained in the maintenance and flight line.
- Ensure use of appropriate equipment for the activities scheduled for experimental flight requests.
- Require the issuance of insurance policies needed for experimental aircraft, personnel and the means used in the tests.
- Run, depending on the type of aircraft, their use and for parts of its jurisdiction, all actions necessary for the issuance by the competent authority of the flight authorization documentation.
- Issue the prototype "As Modified" configuration document as per para 5.1
- Maintain an archive of maintenance, boarding and landing equipment and recordings
- Review Project design and other documents for, maintenance and testing impacts, repair methods and provide comments within area of expertise
- Ensure all activities are performed safely and within the limits of applicable permits and licenses, the documented safety analysis, and applicable technical safety requirements.
- Communicate with other company organizations to ensure activities are started and completed as scheduled and coordinate parts and hardware availability for experimental aircraft configuration changes/maintenance.
- Supervise troubleshoot issues, individually or with Flight Test Engineer or Experimental Pilot

### **PREFERRED EDUCATION/QUALIFICATION:**

- Degree in aerospace engineering;
- Previous demonstrable experimental flight test line management for a civil or military organization including prior Developmental Test (DT) or Operational Test (OT) experience is highly desired with a minimum 7-10 years.
- Experience as Experimental Engineer on experimental airplane is desired as well as experience in certification process (CS23/FAR23).
- Experience and knowledge of flight testing process and knowledge of aircraft flight mechanics, systems, structures, ground, and flight test procedures is highly desired.
- A background in / experience with aircraft configuration changes process and management of As-Built Configuration is highly desired.
- Must be able to lead a team of specialized mechanics and electrical operators to solve complex aircraft integration problems.

## **N. 1 HYDRAULICS & COLD MECHANICS SYSTEM ENGINEER (Villanova d'Albenga site):**

In the framework of a Flight Simulator, new P180 version programs certification and research activities the resource shall accomplish the following tasks:

- Undertake Cold Mechanics systems (Hydraulics, Landing Gear, Brakes, Nose Wheel Steering and actuation miscellaneous systems) staff activities covering the overall development cycle.
- Prepare Specification documentation for associated systems
- Prepare Test Specification notes for associated systems
- Participate to Technical discussion and review with supplier and other technical department
- Prepare Technical Notes for system analysis
- Participate to flight test data analysis of related systems under tests
- Develop research task in the framework of all electrical aircraft system development
- Participate to in service failure report analysis and provide support to Customer Support for inservice aircraft troubleshooting.

### **REQUIRED SKILLS:**

- Familiar with the Cold System design and development, Test and Verification phases and process in aeronautical field;
- Familiar with System Engineering process according to ARP4745A
- Familiar with certification process (CS23/FAR23) in aeronautical field;
- Fluent Technical English language (written and spoken);
- MS Office 2010 package (good level).
- CATIA V5 knowledge

### **PREFERRED EDUCATION/QUALIFICATION:**

- Degree in aerospace or mechanical engineering;
- Demonstrable previous experiences (minimum 5-7 years) in civil certification and military homologation process for aircraft and/or Flight Simulator.
- Previous experience in laboratory system testing

NOTES:

The temporary consultancy contract duration will be 1 year from January 1<sup>st</sup> 2023 to December 31<sup>st</sup> 2023

Possible travels to supplier's site or to a different flight test site are expected and travel expenses will be covered by Piaggio Aero Industries in A.S.

Interested candidates shall send a detailed CV and references to the following email address:

[piaggioaeroamministrazionestraordinaria@pec.piaggioaero.it](mailto:piaggioaeroamministrazionestraordinaria@pec.piaggioaero.it)