VACANCIES EURES PIEMONTE (TORINO) - AEROSPACE SECTOR

LEADER COMPANY IN THE AEROSPACE SECTOR is forthcoming establishment in the province of Turin, which will create new jobs for about 100 people, EURES Piemonte and dedicated services of Agenzia Piemonte Lavoro are looking for various positions including: aerospace, electronics, computer and telecommunications engineers, technical profiles for production operations, Professionals in the administrative, legal, marketing and communication areas:

- AVIONICS SYSTEM ENGINEER
- DEVOPS ENGINEER
- EMBEDDED SOFTWARE ENGINEER
- FLIGHT DYNAMICS ENGINEER
- FLIGHT OPERATIONS SOFTWARE ENGINEER
- ICT SYSTEM SPECIALIST
- INDUSTRIAL TECHNICAL DESIGNER ENGINEER
- MACHINE LEARNING SPECIALIST
- R&D HARDWARE DESIGN ENGINEER
- SENIOR R&D ENGINEER
- THERMAL ENGINEER

Find attached below the vacancies with the description of the profiles sought at international level.

Application Method:

If you are interested in this position, please send your CV and Cover Letter in English to the e-mail eures.recruiting@agenziapiemontelavoro.it with copy to pcpmixto.eures@sepe.es

Ref.: *Aerospace sector – Italy*

Closing date: 31-05-2024

AYUDAS EURES A LA MOVILIDAD LABORAL

Infórmate de las ayudas económicas para acudir a la entrevista, y/o para el posterior traslado al país de destino si resultas contratado.

Requisitos y trámites a seguir en: Planes Específicos de Movilidad de EURES en los que participa España (Targeted Mobility Scheme - TMS)

https://www.sepe.es/HomeSepe/Personas/encontrar-trabajo/empleo-europa/tu-primer-empleo-eures.html

Para más información contacta con el/la Consejero/a EURES de tu provincia:

https://www.sepe.es/contenidos/personas/encontrar_empleo/encontrar_empleo_europa/consejeros.html

EURES ESPAÑA. Síguenos en:

2 AVIONICS SYSTEM ENGINEER

For a leader company in the aerospace sector, we are looking for skilled and passionate candidates in Avionics systems.

The candidate will support the Electronics Unit Head, the Hardware Design Lead, and the FPGA Design Lead, to coordinate and review design, development, and testing activities for space applications, more specifically regarding avionics systems for micro-satellites.

Activities will include:
Support to proposal preparation regarding Avionics R&D activities
Trade-off analysis and definition of hardware architectures
Planning of design, development, and test activities, including drafting of test plans for environmental qualification test campaigns
Review of electrical schematics, layout, and manufacturing specifications
Review of technical documents (Design Description, ICD, Test Procedures, Technical Specifications etc.)
Support to other company's Units

GENERAL REQUIREMENTS
Degree: Master's Degree in Electronic Systems Engineering
Working experience: 3-5 years in the space industry
Great problem-solving skills
Team player
Fluent English

REQUIRED EXPERIENCES & SKILLS
Experience in developing space systems, including OBCs and PCDUs
Experience in scheduling and coordinating activities for avionics projects
Very good knowledge of analog, digital and power electronics
Very good knowledge of FPGA devices
Very good knowledge of the space standards (CCSDS, ECSS, MIL etc.)
Knowledge of design for EMC/EMI
ADDITIONAL ASSETS
Knowledge of RF electronic devices
Experience in programming embedded micro-controllers/processors
Knowledge of Microsoft Project

PLACE OF WORK: Torino, Italy

WORK CONDITIONS: individual salary based on Italian National Collective Labor Agreement, experience and skills.

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EURES ESPAÑA. Síguenos en:

2 DEVOPS ENGINEER

For a leader company in the aerospace sector, we are looking for r passionate and reliable DevOps Engineers to support our Software Development team. The candidate will cooperate with colleagues during daily activities and will be in charge to design, deploy and maintain the CI/CD environment for the new software projects. You will have the opportunity to work together with passionate and experienced engineers from the company Avionics area who have multidisciplinary backgrounds such as Computer Science, Electronics, Telecommunications, and more.

The activities will include:
- Design and develop automation systems for software build, testing, and deployment.
- Cooperate with the other members of the Software Development team.
- Provide training to the software developers on the usage of CI/CD tools.
- Maintain and upgrade the software development environment.
- Cooperate with the company's Quality Assurance (QA) department to define and monitor quality rules and quality gates for software products.

GENERAL REQUIREMENTS
Engineering Degree or Technical Diploma.
At least 2 years of experience in DevOps.
Good written and spoken communication in English.

REQUIRED EXPERIENCES & SKILLS
Knowledge of CI/CD tools: Jenkins, Bitbucket/GitHub pipelines, etc.
Good knowledge of Unix/Linux operating systems, including shell scripting.
Good knowledge of software (unit) testing frameworks.
Good knowledge of code versioning systems (Git).
Knowledge of issue tracking tools (Jira, etc.).
Knowledge of container-based systems and orchestration (Docker, Kubernetes, etc.).
Scripting languages and configuration formats: Bash, Groove, JSON, etc.
Knowledge of programming languages: C/C++, Python, etc.

ADDITIONAL ASSETS
Previous experience in aerospace/space projects (industrial and/or academic).
Knowledge of real-time operating systems (RTEMS, FreeRTOS, uCOS, etc.).
Experience with customization of OS for embedded systems (Linux, Zephyr, Yocto, etc.).
Knowledge of space sector standards (ECSS, CCSDS, etc.).

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EURES ESPAÑA. Síguenos en:

2 EMBEDDED SOFTWARE ENGINEER

For a leader company in the aerospace sector we are looking for skilled candidates in electronic space systems. You will have the opportunity to define, develop and test software for innovative space computing systems and exciting missions.

In this role you will:

- Design on-board software for space missions and services
- Develop real-time operating system-based applications
- Develop full-stack software from low-level drivers to application software
- Test and integrate software in satellite platforms
- Develop support software tools for testing and ground support equipment

GENERAL REQUIREMENTS

- Master's degree in Electronics Engineering / Computer Science
- At least 3 years of working experience
- High flexibility and team-working skills
- Fluent in Italian and English is mandatory

REQUIRED EXPERIENCES & SKILLS

Knowledge of Embedded systems software programming
Very good knowledge of C/C++
Knowledge of real-time operating systems
Knowledge of programming/scripting languages (Python, TCL, AWK, Ruby, etc.)
Knowledge of versioning systems (Git)
Experience with:
Embedded systems software and firmware development
Device driver development
Serial communication standards (UART, SPI, I2C, CAN, etc.)
Laboratory instrumentation, such as oscilloscopes, digital multimeters, power supplies, etc.

ADDITIONAL ASSETS - Previous experience with:
Aerospace/space standards (CCSDS, ECSS)
SPARC, MicroBlaze, RISC-V, ARM devices and architectures
RTEMS, FreeRTOS, Linux-RT, uCOS, Zephyr Operating Systems
Unix/Linux OS usage and shell scripting
Jira Software project management
Scrum project management
CI/CD systems (Jenkins, Bamboo, GitHub Actions)
Aerospace/space projects (industrial and/or academic)
ML/AI algorithms development

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EURES ESPAÑA. Síguenos en:

1 FLIGHT DYNAMICS ENGINEER

For a leader company in the aerospace sector, we are looking for a skilled and passionate Flight Dynamics Engineer.

In this role, you will be responsible for the preparation, execution, and monitoring of all activities related to Flight Dynamics. As a Flight Dynamics Engineer, you will play a crucial role in supporting our Flight Operations Team, collaborating with the System Engineering team, and ensuring the smooth implementation, usage, and maintenance of Flight Dynamics software. You will also have the opportunity to develop tools and scripts to enhance satellite system operations and integration with Mission Control Software.

DUTIES

- Prepare, execute, and monitor all Flight Dynamics activities, ensuring compliance with established standards and procedures.
- Support the Flight Operations Team on-console, in routine and special operations, providing expertise and assistance as needed.
- Collaborate with the Flight Operations and System Engineering teams to understand and address Flight Dynamics requirements, contributing to the overall success of satellite missions.
- Collaborate with the Project Management team to assess the project planning, risks, provide and review technical documentation, and manage resources.
- Implement, utilize, and maintain Flight Dynamics software, including troubleshooting and resolving any technical issues that may arise.
- Develop tools, such as scripts, to streamline satellite system operations and facilitate integration with Mission Control Software.
- Conduct thorough analysis and evaluation of Flight Dynamics data to ensure optimal satellite performance and trajectory accuracy.
- Stay up-to-date with industry trends, advancements, and best practices in Flight Dynamics and satellite operations, continuously enhancing your knowledge and skills.
- Collaborate with cross-functional teams to identify opportunities for process improvements and implement innovative solutions.
- Participate in system testing, simulations, and mission rehearsals to validate Flight Dynamics procedures and ensure readiness for real-time satellite operations.
- Provide technical expertise and guidance to other team members, fostering a collaborative and knowledge-sharing environment.
- Interface with customer or external stakeholders.

Perform Mission Analysis tasks:
Mission and Concept of Operations (ConOps) design, early-stage feasibility assessments
Maneuver strategy definition and delta-V budget for activities such as formation flight, phasing, constellation management, station keeping
Interplanetary transfers and flybys
Statistical analysis (sensitivity, Monte Carlo, etc.)
Collision Avoidance
Perform Spacecraft Navigation tasks:
Orbit Determination (measurement simulations and filtering, state estimation, covariance analysis)
Trajectory and maneuver optimization
Perform GNC tasks:
6DOF simulations (dynamics, sensors, actuators)

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Guidance and Control algorithms
Generate and manage SPICE mission kernels.
Support the generation and submission of proposals to industry and institutional partners.

GENERAL REQUIREMENTS
- Master's degree in Aerospace Engineering, Physics, Mechanical Engineering, or a related field.
- Solid understanding of Flight Dynamics principles, including orbit determination, trajectory analysis, and orbit maneuvering.
- Previous and proven experience in the same role (at least 2 years)
- Experience in satellite operations, preferably in a Flight Dynamics capacity.
- Strong programming skills, with proficiency in languages such as Python, MATLAB, or C++.
- High flexibility and team-working capability
- Hands-on and proactive approach
- Ability to work with tight schedules
- Ability to coordinate a multidisciplinary and international team

REQUIRED EXPERIENCES & SKILLS
- Be fluent in English (written and verbal)
- Excellent problem-solving skills and the ability to analyze complex data sets.
- Strong communication and interpersonal skills, with the ability to collaborate effectively with cross-functional teams.
- Detail-oriented with a high level of accuracy in work output.
- Ability to work in a fast-paced environment and handle multiple tasks simultaneously.
- Flexibility to work outside of regular business hours when required, especially during critical satellite operations

ADDITIONAL ASSETS
Knowledge of MONTE or GODOT environments.
Knowledge of the Ground Segment utilization.
Knowledge of Mission Control Software and its integration with Flight Dynamics systems.
Familiarity with scripting and automation tools to develop custom solutions for satellite system operations.

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EURES ESPAÑA. Síguenos en:

1 FLIGHT OPERATIONS SOFTWARE ENGINEER

For a leader company in the aerospace sector, we are looking for a passionate and reliable Flight Operations Software Engineer with DevOps knowledge to support our Flight Operation Team.
We would like to meet candidates able to think and act in a cooperative way and establish successful cooperation with others during daily activities to develop, design, deploy and maintain the web-based ground software as well as CI/CD environment for the new software projects.

In this role you will:

- Design, develop and test web applications for the Ground Segment.
- Cooperate with other members of the Flight Control Team and Software Development Team.
- Design and develop automation systems for software build, testing, and deployment

GENERAL REQUIREMENTS
Software Engineering or Computer Science Degree
Good written and spoken communication in English

REQUIRED EXPERIENCES & SKILLS
Knowledge of programming languages: C/C++, Python
Knowledge of web formatting languages: HTML, CSS, etc.
Good knowledge of Unix/Linux operating systems
Good knowledge of code versioning systems (Git, etc.)

ADDITIONAL ASSETS
At least 1 year of experience in Software development and DevOps
Programming languages: GO, JavaScript, .NET
CI/CD tools: Jenkins, Bitbucket/GitHub pipelines, etc.
Shell scripting
Issue tracking tools (Jira, Trello, etc.).
Scripting languages and configuration formats: Bash, XML, JSON, etc.
Web development frameworks: Angular, Bootstrap, React
Knowledge of container-based systems and orchestration (Docker, Kubernetes, etc.).
Knowledge of software (unit) testing frameworks

PLACE OF WORK: Torino, Italy

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1 INDUSTRIAL TECHNICAL DESIGNER

For a leader company in the aerospace sector we are looking for an Industrial Technical Designer to support the AIT & Design Unit.
We would like to meet candidates able to think and act in a cooperative way and establish successful cooperation with others.
If you put the customer at the heart of your thoughts and actions and always strive to provide a service of excellence, aspire to outstanding results, and use your resources sustainably, you are best equipped for us.

DUTIES - In this role you will:

- Prepare detailed engineering technical drawings for mechanical part and assemblies in accordance with prescribed standard, layouts, assemblies, isometrics and client specifications, using Solidworks3D
- Review rough sketches, drawings, specifications, and other data to ensure they conform to requirements
- Assist in generation of design documentation such as tolerance stack-ups, interface agreements and trade-off analysis
- Design Ground support equipment for Assembly, Integration and Testing activities
- Perform Incoming inspection activities for the mechanical components manufactured (i.e., Dimensional check, Surface finish check, Marking)
- Maintain and update drawing files, ensuring proper documentation and organization
- Create associated parts lists supporting part definition
- Support Technical Area Responsibles

GENERAL REQUIREMENTS

- 2+ years of work experience in similar roles
- Experience with 3D modeling software
- Experience with MS Office Excel, Word & PowerPoint
- High flexibility and team-working capability
- Ability to work with tight schedules
- Ability to write reports
- Very good knowledge of Italian and English languages

REQUIRED EXPERIENCES & SKILLS

- Previous experience in design and technical drawings preparation in mechanical and aerospace sector
- Familiarity with product life cycle development and industrial activities including reviews
- Knowledge of GD&T (ASME Y14.5 and Y14.100)
- Working knowledge of Solidworks3D
- Working knowledge of high strength materials, manufacturing processes, and surface
- Basic knowlede of 3D Printing Process
- Capability to operate with dimensioning and measuring tools (caliper, micrometer, scale, load cells, microscope, etc.)

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1 MACHINE LEARNING SPECIALIST

For a leader company in the aerospace sector we are looking for a Machine Learning Specialist. You will develop Artificial Intelligence-based software systems for aerospace applications, and you will have the opportunity to deal with the development of AI-based GNC systems. The activities will include (at least):

- Developing Machine Learning / Reinforcement Learning algorithms;
- Implementing High-level versions of the algorithms (e.g. Python);
- Testing algorithms with computer simulations;
- Integration of the developed algorithms in On-Board Computer;
- Testing the integrated system in a relevant environment.

GENERAL REQUIREMENTS
- Master's degree in Computer Engineering, Computer Science or Mathematical Engineering;
- 1-2 years of working experience (entry-level);
- Experience in Reinforcement Learning area (industrial and/or academic);
- Strong programming skills;
- Knowledge of Italian and English languages.

REQUIRED EXPERIENCES & SKILLS
- Machine Learning and Reinforcement Learning theory;
- Deep Learning techniques;
- Image Processing techniques;
- Python and C/C++.

ADDITIONAL ASSETS
- Experience in aerospace/space area and or in scientific research;
- Participation in Machine Learning projects/competitions.

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EURES ESPAÑA. Síguenos en:

1 R&D HARDWARE DESIGN ENGINEER

For a leader company in the aerospace sector we are looking for a passionate Hardware Design Engineer to further develop our team in the Research & Development Unit.
In this role, you will have the chance to work on inspirational projects, contributing to the development of new technologies in support of next-generation space assets, and in the near future, you will be focused on On-Board Computers, Power Systems, and Telecommunication solutions intended to operate both on Earth and dee-space (Moon and Mars).

DUTIES & RESPONSIBILITIES

- Joining R&D Unit you will support the design and rapid prototyping of electronic systems for space applications, contributing to the following activities:
- Definition of board-level hardware architectures
- Preliminary validation by means of electrical analysis and simulations (SI/PI, EMC, voltage/current/temperature/power derating, etc.)
- EEE parts selection
- Design of the electrical schematics and PCB layout
- Definition and execution of tests activity, including drafting of test plan/procedures and preparation of support equipment

GENERAL REQUIREMENTS

- Master's Degree in Electronics Engineering
- Fluency in English

REQUIRED EXPERIENCES & SKILLS

- At least 2 years of working experience in a similar role
- At least 2 complexes PCBs successfully delivered to customers
- Proficiency in Altium Designer
- Extensive knowledge of laboratory instruments
- Very good knowledge of analog, digital, and power electronics
- Very good knowledge of complex PCB layout design

ADDITIONAL ASSETS

- Proven ability to work in a team on complex projects
- Experience in space projects compliant with ECSS/MILKnowledge of RF electronic devices and EMC qualification
- Agile development approach

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EURES ESPAÑA. Síguenos en:

1 SENIOR R&D ENGINEER

For a leader company in the aerospace sector we are looking for a senior R&D engineer, who is excited about our mission and able to support new technology and product developments for CubeSats and micro-satellites in Earth's orbit and deep-space.

The role is focused on the execution and coordination of projects with a high degree of innovation, executed in the frame of the activities performed by the Research and Development unit. These projects include the design and qualification of avionic systems beyond the state of the art for small satellites, the execution of feasibility studies (phase 0, A), the application of disruptive technologies such as AI and additive manufacturing to commercial and science missions.

The Senior R&D Engineer will be part of an integrated R&D group that is responsible for thendevelopment of new products and study and analysis of new mission concepts. You will support the R&D unit by solving multi-disciplinary design problems related to new missions, new product development, new technologies applied to small satellites

DUTIES
- Coordinate and lead cross-functional technical teams for the execution of R&D projects
- Assess emerging technology and evaluate their impact on the company's business and technology roadmap
- Define new R&D activities, including the execution of feasibility studies, and the realization of proof of concepts or prototypes
- Coordinate with the Growth and Engineering teams for the definition of technical and commercial features and requirements of new systems
- Mentor the junior team members and share with them lessons learned and best practises
- Constant update on new technologies, tools and methods
- Promotion of initiatives to improve products, technology or the overall company performance
- Support product and technology road mapping processes

GENERAL REQUIREMENTS
- Master's degree in Aerospace/ Electronical/ Computer Science engineering or equivalent experience
- At least 5 years of working experience focused on space systems
- High flexibility and team-working skills.

REQUIRED EXPERIENCES & SKILLS
- Knowledge of the space development process for low TRL activities
- Knowledge of the main elements of small spacecraft systems (CubeSat and microsat) and main spacecraft architectures
- Awareness of the state-of-art of small satellites' technology and main space technology trends
- Familiarity with the most relevant space standards, including ECSS
- Hands-on experience in space hardware development
- Familiarity with space missions and technologies project life cycles
- Strong analytical and problem-solving skills to address complex engineering challenge
- Ability to analyze and interpret data, simulations, and test results

ADDITIONAL ASSETS
- Phd in Aerospace/ Electronical/ Computer Science engineering Previous experience in technology development projects as technical leader (either for internal developments or funded activities)
- Previous experience in technical proposal writing in the frame on national or European projects
- Demonstrated experience applying continuous improvement concepts and tools.
- Knowledge of agile and lean methodologie

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EURES ESPAÑA. Síguenos en:

3 THERMAL ENGINEER

For a leader company in the aerospace sector we are looking for Thermal Engineers, who are excited about our mission and able to support the design of thermal control systems based on two-phase heat transfer for Space and Ground applications. The new Colleague will be part of the AIT& Design Unit and will have the opportunity to be involved in all phases of the projects.

DUTIES
The role includes mechanical and thermal design and numerical simulations, and you will be able to work with a team of passionate and collaborative engineers supporting the development of new products. These activities will include:

- Multiphysics simulations, e.g. thermal, fluid-dynamic.
- Design of two-phase systems.
- Support to testing activities and experimental data analysis.
- Validation of numerical models.
- Preparation of technical documentation.

GENERAL REQUIREMENTS

- Master's degree in Aerospace/Energy/Mechanical Engineering.
- At least 3 years of working experience.
- High flexibility and team-working skills.

REQUIRED EXPERIENCES & SKILLS

- Previous experience in projects (industrial and/or academic) in the aerospace/space industry.
- Previous experience in thermal and fluid-dynamic modeling.
- Good knowledge of Comsol Multiphysics.
- Knowledge of the English language, both written and spoken.

ADDITIONAL ASSETS

- Proactive and curious person, and able problem solver.
- Knowledge of MIL/Space Standard

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