Job offer

Data Solution Architect

MEDES, Institute for Space Physiology and Medicine, is a hybrid organization between space and health, which was created in 1989 by the French Space Agency, CNES and Toulouse University Hospitals, its two main members.

The activities focus on space physiology and medicine, clinical research and dual innovations for space and health. **As part of its activities, MEDES contributes to an integrated team at the European Astronaut Centre (EAC) in Cologne, Germany. To confort this integrated team, we are hiring a data solution architect, who will be based at the ESA / EAC in Cologne.**

As a Data Solution Architect, you will be responsible for designing, developing, and maintaining data solutions that support business and operational requirements. Your role covers the full data lifecycle, from data collection and ingestion to storage, transformation, reporting, visualization, and user access.

KEY RESPONSABILITIES

- Design and maintain data architectures and solutions aligned with business, operational, security, and data-protection requirements.
- Support the administration and continuous development of the Astronaut Medical Database (AMD) and its associated data processes.
    - Implement appropriate access control, data classification, confidentiality, and information-security measures for sensitive data.
    - Develop and manage processes for data ingestion, transformation and integration across different data sources and systems.
    - Troubleshoot data, integration, reporting, and access-related issues and coordinate their resolution with relevant stakeholders.
- Define and document technical processes and contribute to security and operational documentation
- Serve as the key liaison between Space Medicine Team and IT Security, the Data Protection Officer (DPO), and System Security Officers (SSOs), ensuring that security and data protection requirements are appropriately addressed within the Space Medicine Team
- Identify opportunities for process automation and improvement, and design solutions that reduce manual activities and improve data quality and consistency.

- Provide technical guidance, training, and support to users and stakeholders on data solutions and associated tools.
- Coordinate with internal teams, external service providers, and other stakeholders regarding solution development, implementation, maintenance, and evolution.
- Provide support to the Head of Space Medicine Team for the Leads requirements.

REQUIREMENTS & QUALIFICATIONS

- Strong knowledge of data and system architecture, database design, data modelling and system integration.
- Proficiency in SQL and scripting/programming languages, particularly Python, for data processing, automation, and integration.
- Experience with ETL processes, data ingestion pipelines, APIs and automated data workflows.
- Knowledge of business intelligence and analytics solutions, particularly Microsoft Power BI and Power Automate.
- Knowledge of GDPR, data governance principles and secure handling of sensitive information.
- Experience working in a clinical, health-data environment, with an understanding of the specific requirements associated with sensitive individual medical data.

- **Location & Mobility:** Based in Cologne, Germany, with limited potential travels within Europe
- **Legal & Administrative Framework:** Governed by French law, with payroll and social security managed in Germany (country of residence). Available as soon as possible.
- **Language:** Fluency in English is mandatory.

HOW TO APPLY

To apply, please send your **CV and Cover Letter** in English to : recrutement@medes.fr

Applications will be reviewed by MEDES with ESA validation.

⚠️ *Please note: Applications should be submitted as soon as possible. They will be reviewed on a rolling basis, and the application process will close as soon as a candidate is selected.*