



AI & Data Engineer

About Us

At **Nanological**, we are a **cutting-edge medical device company** revolutionizing the **In Vitro Diagnostics (IVD)** field with our first product— a **sepsis diagnostic device**. As a **dynamic startup**, we are looking for passionate, talented individuals who are eager to make a difference and join our mission to transform healthcare. **If you're driven by innovation and want to contribute to groundbreaking work, this is the opportunity for you.**

The Role

We are looking for a **AI & Data Engineer** with strong engineering fundamentals and expertise in **Python and C++**. You will design, build, and maintain the **real-time data infrastructure** for our **novel IVD device**, ensuring seamless **capture, processing, and interpretation of biosignals**. This role bridges **software engineering, data science, and healthcare**, offering a unique opportunity to impact **medical diagnostics**.

Key Responsibilities

- Develop **end-to-end data pipelines** for real-time diagnostic signals.
- Implement and optimize **ETL/ELT** processes to ensure data integrity and scalability.
- Design and enhance **signal processing algorithms** (noise reduction, filtering, feature extraction) in **Python/C++**.
- Ensure **low-latency, high-throughput data pipelines** for continuous streaming.
- Implement **ML algorithms** (classification, regression, pattern recognition) to analyze biosignals.
- Contribute to the **full software development lifecycle**, from design to deployment.
- Stay at the forefront of **signal processing and machine learning** advancements.

Qualifications

- **Bachelor's, Master's, or PhD** in **Computer Science, Electrical Engineering, Telecommunications**, or a related field.
- Strong proficiency in **Python and C++**, with experience in **performance optimization and system-level programming**.



- Proven experience in **signal processing and machine learning applications**, preferably in **biomedical or healthcare**.
- Hands-on experience with **ML frameworks** like **TensorFlow or PyTorch**.
- Excellent **problem-solving, communication, and teamwork skills**.

Why Join Us?

- **Innovate in Medical Technology:** Be part of a team pushing the boundaries of **healthcare diagnostics**.
- **Cutting-Edge Work:** Contribute to an **intellectually stimulating environment** with high-impact projects.
- **Career Growth:** Competitive salary and opportunities for **professional development**.

A Recognized Workplace

- 🏆 **Best Healthcare Business Idea** (Healthstart, Community of Madrid)
- 🏆 **Innovatia 8.3 Award for Best Technology-Based Company** (national level)

We collaborate with **top research centers** like **CSIC** and leading **medical institutes**. Join **Nanological** and help revolutionize **IVD diagnostics**!

✉️ How to Apply

Send your application to careers@nanological.es before **March 10**.





Junior Mechanical Design Engineer (Medical Devices)

About Us

At **Nanological**, a **CSIC spin-off**, we are revolutionizing the **In Vitro Diagnostics (IVD) field**, with our first breakthrough product—an **innovative sepsis diagnostic device**. As a young and fast-growing startup, we seek **passionate and talented engineers** eager to shape the future of **medical technology**.

The Role

We are looking for a **Junior Mechanical Design Engineer** to join our dynamic team. You will work on **cutting-edge medical devices**, collaborating with **multi-disciplinary teams** to develop, test, and refine innovative designs that will **impact patient lives**. This is a unique opportunity to grow in the **medical device industry**, contributing to both **design and manufacturing**.

Key Responsibilities

- Design and develop **innovative medical devices**, from concept to prototype.
- Create **detailed 3D models and technical drawings** using CAD software.
- Perform **testing, validation, and simulations** to ensure design feasibility.
- Generate **prototypes** for testing and demonstration.
- Collaborate with **cross-functional teams, vendors, and contractors**.
- Participate in **design reviews** and contribute to process improvements.
- Document the **design process** and ensure compliance with regulatory requirements.
- Optimize designs for **manufacturability (DFM) and scalability**.

Qualifications

- **Bachelor's degree** in **Mechanical Engineering, Product Development, Industrial Design**, or a related field.
- **1–3 years** of experience in **mechanical design**.
- Proficiency in **CAD software** (e.g., **SolidWorks, Onshape**).



- Strong **problem-solving and analytical skills**.
- Excellent **communication and teamwork** abilities.
- High attention to **detail and quality standards**.
- **Interest or experience** in the **medical device industry** is a plus.

Why Join Us?

- **Innovate in Medical Technology:** Work on **life-changing diagnostic devices**.
- **Career Growth & Development:** Gain hands-on experience in a **fast-paced** and **supportive** environment.
- **Collaborative & High-Impact Work:** Work alongside passionate experts in **engineering and healthcare**.
- **Recognition & Prestige:** Join a company **awarded** for innovation in healthcare.

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QA Technician (Junior/Senior)

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The Role

As a **QA Technician (Junior/Senior)**, you will be instrumental in establishing and managing our **Quality Management System (QMS)**, ensuring compliance with **ISO 13485** and other regulatory standards. You'll work closely with external consultants and cross-functional teams to drive quality initiatives that will shape the future of our products.

Key Responsibilities

- Develop and implement the **QMS** and ensure regulatory compliance.
- Oversee daily quality operations, including **inspections, batch release**, and **documentation control**.
- Manage **supplier quality**, conduct audits, and monitor performance.
- Lead/support **CAPA** processes and root cause analysis.
- Ensure proper **equipment qualification, calibration**, and **validation**.
- Support **internal/external audits** and ensure compliance.
- Provide **training and guidance** on quality procedures.

Who You Are

- **Education:** Bachelor's Degree or Technical Diploma in **Engineering, Biotechnology, Pharmacy**, or a related field.
- **Experience:**
 - **Junior Level:** 1–3 years in **Quality Assurance/Control** (regulated industry preferred).
 - **Senior Level:** 5+ years, including **QMS implementation, supplier quality management**, and **CAPA leadership**.



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- **Skills & Competencies:**

- Strong **problem-solving** and **analytical skills**.
- **Attention to detail** and a **methodical approach**.
- **Fluent in Spanish and English**.
- Passionate about **quality, innovation**, and **making an impact** in the medical field.

Why Join Us?

- **Shape the Future of Quality:** Be at the forefront of building our Quality function from the ground up.
- **Innovate in Healthcare:** Contribute to a game-changing **sepsis diagnostic device**.
- **Career Growth:** Gain invaluable experience in **QMS implementation** and **regulatory compliance**.
- **Collaborative Work Environment:** Work alongside passionate experts in a growing company that values innovation.

A Recognized Workplace

We've been awarded:



Best Healthcare Business Idea (Healthstart, Community of Madrid)



Innovatia 8.3 Award for Best Technology-Based Company (national level)

We collaborate with **top research centers** like **CSIC** and leading medical institutes. If you're driven by a passion for healthcare innovation, join us at Nanological and help redefine **IVD diagnostics**!

✉ How to Apply

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