TWO OPEN POSITIONS IN FLOWRESERVE LABS (INVESTIGO CALL)

FlowReserve Labs is a spin-off of the Universidade de Santiago de Compostela (USC) and Fundación Instituto de Investigación Sanitaria de Santiago de Compostela (FIDIS) that is focused on the calculation of cardiological indicators based on mathematical models and non-invasive medical imaging.

We seek to expand our team with the incorporation within the framework of the Investigo call (Xunta de Galicia) of two Graduates/Engineers.

TASKS

Position 1. Researcher (Computational Fluid Dynamics)

- 2D/3D reproduction of unique arterial segments from medical image such us aortic valve or coronary arteries
- 3D geometry refinement using computational smoothing techniques
- Performing numerical simulations using CFD techniques that allow the calculation of variables of clinical interest associated with blood flow in arteries.

Position 2. Researcher (Artificial Intelligence and Automation)

- Interpretation and segmentation of CT (Computerized Tomography) medical images
- Definition of cardiological risk indicators by using artificial intelligence techniques
- Automation of processes and coupling of different software packages

MANDATORY REQUIREMENTS

- Degree in Physics, Mathematics or Engineering
- Ability to work in team, initiative and problem-solving capabilities.
- Fluent communication in English
- Less than 30 years old (requirement of the Investigo call from Xunta de Galicia that support these positions)

VALUABLE REQUIREMENTS

- PhD
- Knowledge and skills in automation and programming
- Knowledge in fluid physics and skills in computational fluid dynamics (CFD) and computer-aided design (CAD)
- Knowledge in database design and management
- Previous R&D experience

APPLICANTS MUST PROVIDE BEFORE THE 30 OF MARCH:

- Complete CV
- Recommendation letters and supervisor contact details

Documentation should be sent to info@flowreserve.es. Remuneration will be accorded to the credited value. The contract may become indefinite depending on the performance of the candidate. More info can be requested at the same email.