Software Development Engineer for Gas Turbine Simulation

ITP Aero is looking for a Simulation Software tool developer engineer to further improve the capabilities of the Performance and Fluid System simulation tool of the ITP Design System for the design and analysis of future aeroengines.

The person will be integrated into the team of the Simulation Technology department of Madrid working on the development of SW tools for corporate engineering.

What profile we are looking for:

- Master in Engineering (Aeronautical o Mechanical Eng).
- Initially no previous experience is necessary but desirable in:
  - Programming in C++
  - Parallelization methods for HPC
- Required knowledge:
  - Gas turbine performance models
  - Turbomachinery flows in the meridional plane and 3D flow
- Advanced English
- Soft skills: Teamwork, Initiative and Independence, Motivation for problem solving

What is the vacancy:

Develop additional models of Gas Turbine modules to be integrated in the Performance and Fluid System ITP simulation tool.

- Develop further algorithm resolution code capabilities for steady and transient efficient simulations of performance and fluid cycles.
- Integrate reduced order models for simulation of 0D and 1D models based on 2D or 3D simulations.
- Validate and generate production SW releases and documentation.
- Responsibility on the maintenance of the SW tool and support to users.

If you are interested in the aeronautical industry and want to be part of a sector with great challenges ahead, do not hesitate to apply for this offer.

Aquellos estudiantes o egresados del Máster en Matemática Industrial interesados en esta oferta de trabajo pueden remitir su candidatura (incluyendo un CV) a Fernando Varas (fernando.varas@upm.es) que la redirigirá a la empresa ITP Aero.