

## Open positions : training periods and PhD thesis

In the framework of collaborations with CERFACS, the Safran group and the Horiba group, several positions are now open for training student with possible follow up as a PhD student. In all the cases, the objective is to use of Computational Fluid Dynamics techniques to study the following topics:

### 1- Dynamics of red blood cells immersed within a non-homogeneous fluid flow.

Thesis funding obtained. Work done in Montpellier, at CNRS UMR [I3M](#) or at the R&D department of the [Horiba Medical](#) society.

### 2- Development of low order methods for the prediction of thermo-acoustic instabilities in aero-engines

Thesis funding more than likely. Work done at [CERFACS](#) in Toulouse, in collaboration with the [Snecma Moteurs](#) society,

### 3- Aerodynamic instabilities in solid propellant rocket motors – Application to the Ariane 5 booster.

Thesis funding still under discussion. Work done at [CERFACS](#) in Toulouse, in collaboration with the [Snecma Propulsion Solide](#) society

**Education** : Master in mechanical engineering

**Stipend** : approx. 500 €/month.

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