

**Postdoctoral Fellowship – Turbulence Modeling and Simulation**  
**(MOST Team, LEGI, Grenoble)**  
**Duration: 12 months, renewable.**

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### **Scientific Context**

The MOST team develops advanced approaches for the numerical simulation of turbulent flows, with a dual objective: improving the fundamental understanding of turbulence and developing predictive tools for complex applications, particularly in industrial and environmental contexts. Its activities include:

- development of advanced numerical methods (numerical schemes, HPC, mesh adaptation, multi-fidelity),
  - turbulence modeling (LES, hybrid models, data-driven approaches),
  - study of fundamental phenomena (intermittency, bifurcations, extreme events, quantum turbulence),
  - complex flows (complex geometries, multiphase flows, multiphysics coupling).
- LEGI provides a leading research environment in fluid mechanics, combining modeling, high-performance simulation and experiments.

### **“Open” Postdoctoral Position**

Unlike a standard position, this fellowship offers a high degree of freedom for the candidate to propose their own research project, which should align with the themes of the MOST team. Possible topics include: fundamental turbulence, high-fidelity numerical simulation (DNS, LES), innovative numerical methods, physical or data-driven modeling, turbulence-complex phenomena interactions.

### **Working Environment**

The successful candidate will benefit from a recognized scientific environment, access to high-performance computing resources, and strong interactions with academic and industrial partners.

### **Candidate Profile**

- PhD in fluid mechanics, physics, applied mathematics, or a related field,
- experience in numerical simulation and/or modeling,
- ability to propose an original research project,
- interest in collaborative work.

### **Application Procedure**

Applicants should submit by email ([legi-most-permanent@legi.grenoble-inp.fr](mailto:legi-most-permanent@legi.grenoble-inp.fr)): a CV, a list of publications, a research proposal (2–4 pages), contact details of referees.

### **Contact**

For any questions or informal discussion, candidates are encouraged to contact: [legi-most-permanent@legi.grenoble-inp.fr](mailto:legi-most-permanent@legi.grenoble-inp.fr).