

## IT researcher in materials data science and workflows

### *Three years position*

**Fields: Data science, materials data analysis, high performance computing.**

Are you passionate about data science, AI, and materials innovation? Join the prestigious French national **DIADEM**<sup>1</sup> project and accelerate materials discovery using AI. Work on groundbreaking projects that advance materials science in France, collaborate with leading institutions in dynamic and supportive environments, and apply cutting-edge AI to solve real-world scientific challenges.

We are seeking a talented **Engineer** or **IT Researcher** to develop advanced **materials database infrastructure**. This work will involve close collaboration with the CEA LIST, and the universities of Grenoble and Lyon.

#### **Your main roles:**

- Build scalable and accessible **databases** for **simulation** (interatomic potentials) and **experimental** applications.
- Enable **AI-driven data analysis** and **simulations** to support groundbreaking research.
- Participate in collaborative meetings with leading French computer science laboratories.
- Contribute to the national NUMPEX project on digital stack for exascale computers.

#### **Profile and qualifications:**

- Training in **computer science** with physics knowledge, OR in **materials science** with a strong expertise in computer science.
- Demonstrated skills in data science, database design and management, and enthusiasm for AI applications.
- A strong desire to innovate and contribute to national-scale scientific progress.
- Good **English communication skills** and the ability to work in a **research** environment.

#### **How to Apply:**

Send a short motivation letter and your CV including the name of 3 references to Thierry Deutsch (head of MEM, [thierry.deutsch@cea.fr](mailto:thierry.deutsch@cea.fr)) and Nicolas Vigano (CEA Researcher, [nicola.vigano@cea.fr](mailto:nicola.vigano@cea.fr)).

#### **Scientific environment and workplace:**

You will join the research team of the Interdisciplinary Research Institute of Grenoble (IRIG<sup>2</sup>) working at the Materials Exploration Modeling (MEM<sup>3</sup>) Laboratory, in Grenoble, France. Surrounded by a stunning natural beauty of the French Alps, Grenoble offers a rich ecosystem of public research organizations (CEA, CNRS, ESRF, ILL) and high-tech companies. The city is also home to the Université Grenoble Alpes, which attracts a large number of students benefiting from world-class academic training across a wide range of disciplines.

<sup>1</sup> <https://www.pepr-diadem.fr/en>

<sup>2</sup> <http://irig.cea.fr>

<sup>3</sup> <https://www.mem-lab.fr/en>