

Subject: Tenure-track position at CNRS to become senior scientist in NMR of materials

CNRS invites applications for a tenure-track position, called *chaire de professeur junior* (CPJ), to develop research programme in solid-state NMR of materials.

Scientific objectives

This programme will leverage solid-state NMR to characterize innovative functional materials, including nanostructured materials, polymers, glasses, etc, used for applications, such as heterogeneous catalysis, energy conversion and storage, etc. Methodological developments may include

- the observation of challenging isotopes, such as ^{14}N , ^{17}O , ^{47}Ti , etc,
- the use of advanced NMR instrumentation (high magnetic fields, innovative probes, hyperpolarization, etc),
- the development of specific NMR techniques for paramagnetic solids, quadrupolar nuclei, protons, etc,
- in-situ and operando NMR measurements, etc.

Research environments

The hired scientist will be hosted by one of the following CNRS research institutes:

- CEMHTI in Orléans,
- CRMN in Lyon,
- LCMCP in Paris,
- UCCS in Lille.

These institutes offer access to state-of-the-art solid-state NMR equipment.

Candidate profile

Applicants are expected to demonstrate an expertise in solid-state NMR of materials and outstanding scientific record so that they can be appointed as CNRS senior scientists (*directeur de recherche* in French) at the end of the tenure-track period, which is expected to last between 3 to 6 years. *Directeurs de recherche* are highest research-only rank in the French public research system. They are directly equivalent to Full Professors at universities, but with virtually no mandatory teaching duties.

The tenure-track position includes a start-up package to establish an independent research programme, including funding for research expenses and the recruitment of a PhD student and the access to the state-of-the-art research infrastructures.

Tenure-track framework

The successful candidate is expected to rapidly establish an independent and internationally visible research programme, to supervise doctoral and postdoctoral researchers, to develop collaborations at the national and international levels and to actively seek competitive external funding (e.g. ANR, Horizon Europe and other

national or international funding programmes) to consolidate and expand his or her research activity. The teaching duty for this tenure-track position is intentionally light, amounting to approximately 20-30 hours per year, allowing the successful candidate to dedicate the majority of your time to your research project.

Application procedure and timeline

Applications should be submitted by the end of August 2026.

Shortlisted candidates will be invited for interviews during autumn 2026. The successful candidate is expected to take up the position during 2027, with the exact starting date to be agreed upon with CNRS and the host institute.

The application should include:

- a curriculum vitae, including a complete list of publications;
- a research proposal outlining the scientific programme to be developed during the tenure-track period, including its originality, feasibility, and expected impact.

Contacts

Prior to submission, applicants are strongly encouraged to contact the host institute to discuss the position, the recruitment process, their scientific project and its alignment with the scientific environment along with available research infrastructures. They can contact

- CEMHTI: Michael Deschamps (michael.deschamps@cnrs-orleans.fr),
- CRMN: Guido Pintacuda (guido.pintacuda@ens-lyon.fr),
- LCMCP: Corinne Chaneac (corinne.chaneac@sorbonne-universite.fr),
Christian Bonhomme (christian.bonhomme@sorbonne-universite.fr),
- UCCS : Laurent Delevoye (laurent.delevoye@univ-lille.fr), Olivier Lafon (olivier.lafon@univ-lille.fr).