



### **CNRS JUNIOR POSITION for the capture and transformation of small strategic molecules**

(<https://carrieres.cnrs.fr/recrutement-hors-concours/#offres-postes-de-chaieres>)

Are you interested to develop new porous solids based catalysts for the energy transition ? Then join us at the [Institute of Porous Materials from Paris](#) on a CNRS Tenure Track position, which provides salary and research package for five years and includes some teaching duties (45 hours per year) at the PSL university – Ecole Normale Supérieure and ESPCI PSL (e.g. the [Chemistry Graduate program](#)). The opening of the position is announced between four different research institutes in France and will go to the institute with the best candidate.

#### ***Research profile:***

The research profile involves a strong expertise in ordered porous solids (MOFs, COFs, HOFs and related composites...) and a good knowledge in heterogenous catalysis (electro-, photo-, thermal...) applied to the conversion of small strategic molecules ( $\text{CO}_2$ ,  $\text{N}_2$ ,  $\text{H}_2$ ...). One could eventually combine these approaches with either Combinatorial or Artificial Intelligence tools. The materials will be elaborated at IMAP and first properties evaluated in-house prior to benefit from IMAP's extensive network of collaborations for the advanced catalytic investigation (experimental, theoretical) of the most promising materials.

#### ***Teaching:***

The limited teaching activities (45 hours per year) will be elaborated together with the PSL university, through the master in Chemistry as well as the Ecole Normale Supérieure and ESPCI Paris students to provides a high-level teaching on materials for the conversion of small molecules in line with the energy transition. The laureate will contribute to teaching in synthesis, characterization and properties of porous solids, at the bachelor's or master's level.

#### ***Financial overview:***

Total funded on CPJ : salary for a 5 year duration + 200 k€ (ANR package)  
IMAP laboratory co-funding: 100k € (equipment, consumables)

#### ***Contact:***

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