INSA Rennes recruits a post-doc

Department: ISCR/CSM
Location: INSA Rennes
Job type: Full-time, 12-months contract
Starting: October 1st, 2023
Salary: 30904 € annual gross salary
Annual leave: 45 days

Work environment:

INSA Rennes is the largest public engineering school in Brittany. It welcomes 2,050 students and apprentices, and graduates more than 340 engineers, 60 masters students and 40 PhDs every year. With 9 teaching departments, including 8 specialties, and 6 research laboratories, INSA employs around 540 public-sector staff (research professors, teachers, permanent and contract employees) and over 400 part-time employees, mainly from companies.

INSA Rennes is a founding member of the INSA Group, whose establishments have shared a common model and values from the outset, in line with the humanist philosophy of its founder, the philosopher Gaston Berger. The Group’s three main missions - education, research and development - are marked by a close relationship with companies and a fast-growing international presence.

The range of courses on offer is underpinned by excellent scientific and technological research, in collaboration with companies. INSA Rennes trains engineers and PhDs specializing in digital and communications technologies, materials and structural mechanics. In synergy with these first three missions, technology transfer is the Institute’s fourth main mission, leading to the production of knowledge and economic development through innovation and entrepreneurship.

Mission:

The Institut des Sciences Chimiques de Rennes (ISCR - UMR 6226) is a joint research unit of the CNRS, the University of Rennes, the Ecole Nationale Supérieure de Chimie de Rennes (ENSCR) and the Institut National des Sciences Appliquées de Rennes (INSA). The Institute, created on January 1, 2006, is the result of successive regroupings of all academic forces in chemistry on the Rennes site. It brings together over 280 permanent staff, including some 140 teacher-researchers, 60 CNRS researchers and 80 engineers and technicians, at the Rennes Beaulieu and Rennes Villejean sites and at the Lannion IUT, with a total workforce of over 500. Its organization is decentralized into eight teams of varying sizes, including the "Chemistry of Solids and Materials" team.

The research group into which the candidate will be integrated is the INSA component of the "Chemistry of Solids and Materials" team. This team brings together 45 permanent staff, 10 of whom belong to the group.

The group’s main research activity is in the field of rare-earth-based coordination compounds, with the aim of synthesizing compounds with interesting magnetic and/or optical properties. The compounds studied (coordination complexes or polymers) are homo-metallic or hetero-metallic.

The successful candidate will develop new luminescent markers that can be used to trace materials and improve their recyclability.

Main duties:

The recruited candidate will synthesize new products and characterize them structurally. He/she will then study their luminescence properties. Finally, based on their thermochemical properties, he/she will propose a new range of luminescent markers that are as efficient and stable as possible.
Qualifications, Competencies:

The successful candidate will hold a PhD. He/she should have strong experience in the field of lanthanide coordination chemistry and luminescence of rare-earth coordination compounds. He/she should also have good experience of ICP chemical analysis and thermochemistry of rare-earth coordination polymers.

Application procedure:

Applications must be sent to job-ref-sfene08mju@emploi.beetween.com at September 15th 2023 by the latest. Selected candidates will be invited to an interview in the second half of september.

More information available from Olivier Guillou and Carole Daiguebonne, heads of the Core-Shell Trace project: olivier.guillou@insa-rennes.fr and carole.daiguebonne@insa-rennes.fr.