



Post-doctoral fellowship in radiochemistry

The candidate must take the position before March 1st, 2012

MISSIONS

As part of the development of a research center in pharmaco-imaging in Dijon-France, the Institute of Molecular Chemistry of the University of Burgundy (ICMUB, UMR 5260, Dijon, France) is seeking a motivated candidate with a strong **background in radiochemistry** for a one-year **postdoctoral position** (around 2200 euros/month before taxes).

The successful candidate will justify a strong background in organic synthesis, radiochemistry, radiolabelling with beta emitters (^{11}C , ^{18}F , ^{64}Cu , in particular), use of automated synthesis, radiochemical purification and radiation protection.

The candidate will work at the Institute of Molecular Chemistry of the University of Burgundy (ICMUB, UMR CNRS 5260) in the framework of the 3MIM Research Convention (convention CNRS - Regional Council of Burgundy, University of Burgundy "Labeling of Molecules with Metals for Medical Imaging" managed by the ICMUB) and will work to the development of a radiolabeling platform close to the Pharmimage® cyclotron. He will also closely work with other university research teams, companies and health facilities.

The candidate will operate in a major scientific environment around Pharmimage®, the 3MIM research convention and the IMAPPI Equipex project (Integrated Magnetic resonance And Positron emission tomography in Preclinical Imaging –granted by the French Government).

ACTIVITIES

- Participate to the development of the radiolabeling platform
- Propose and implement automated chemical synthesis in a radioactive environment
- Propose and implement the transposition of synthesis validated by research teams in automatic synthesis
- Respect for radiation protection regulations
- Analyse data and format the results for presentation
- Prepare reports of experience and study, technical notes, scientific publications
- Provide scientific and technological monitoring in this field

SKILLS

- Have extensive knowledge and experience in organic synthesis and automated syntheses
- Have extensive knowledge and experience in radiochemistry, radiation protection and radioactive labeling by beta-emitting isotopes (^{18}F , ^{11}C , ^{64}Cu in particular)

- A first experiment on a radiolabeling platform is needed
- Ideally have a first approach to the synthesis of tracers injected into humans (GMP procedures and environment)
- Mastering English, references TOEIC / TOEFL appreciated
- Good computer skills
- Ability to work in teams with university teams, health facilities and companies
- Have a good intellectual curiosity
- Be creative and autonomous while respecting the hierarchy

Please send your application including a CV, list of publications and at least 3 references to:

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