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As part of the NADIAM project, which brings together the CREATIS laboratory, the Léon Bérard cancer center (CLB) and Kitware-France, we are proposing a **research engineer** position for 36 months.

Context. The CREATIS team located at CLB is pursuing various translational research projects related to the hospital's nuclear medicine departments. These projects are in the fields of medical image processing in oncology and medical physics. Several computer developments are the basis of these projects and are used daily by researchers and clinicians. A collaboration with the company Kitware-France, Lyon, has been in progress for several years. Kitware technologies (ITK, etc.) are regularly used in these projects.

Objective of the project. The project consists of 1) developing a set of algorithms to reconstruct quantitative SPECT images with respiratory movement correction and 2) validating and implementing these algorithms under clinical conditions. For the recruited person, the goal is to develop, in collaboration with the different actors of the project, a complete and validated workflow allowing to propose to doctors the improved SPECT images directly on their workstation. On the other hand, it will also provide development support to RTK and GATE open-source platforms.

The recruited person will have to interact with many actors: CREATIS researchers and engineers involved in the project, Kitware engineers, CLB physicians and medical physicists.

Requested skills

- The candidate must have a solid background in computer development, C++, Python, ITK, VTK, git, cmake, scripting, DICOM, image processing ...
- Knowledge / interest in medical physics, tomographic imaging, Monte Carlo simulation and radiation physics will be appreciated
- Language: French is highly recommended to interact with clinical team, English is required
- Location : Léon Bérard Center, Lyon, France.
- Salary: about 2000 euros / month according to experience. CNRS contract.
- Duration: 36 months, available now.

Contact

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