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let's beat
cancer.



Instituts
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Inserm

Institut national
de la santé et de la recherche médicale



Scientific developer position at Institut Curie in Systems Biology Group

Development of systems biology methodology and software with applications to cancer research in the context of European projects

Duration: 18-36 months with possibility of extension, starting immediately

Links <http://curie.fr>, <http://u900.curie.fr> <http://sysbio.curie.fr>, <http://acsn.curie.fr>, <http://navicell.curie.fr>
<http://www.cancer-systems-biology.net>

Context

Institut Curie is one of the biggest European institutions for cancer research with strong and old interdisciplinary traditions. It also comprises a hospital specialized in cancer treatment, and therefore dispose of a continuum of expertise from fundamental research to patient care. It is located in the centre of Paris in a both cultural and scientific rich environment (<http://curie.fr>).

The "Bioinformatics and Computational Systems Biology of Cancer" Unit (U900 INSERM, Mines ParisTech, Institut Curie) involves about 90 researchers and students. It is a very active and growing interdisciplinary team of biologists, physicians, mathematicians, statisticians, physicists and computer scientists (<http://u900.curie.fr>). Our research group focuses on deciphering determinants of tumorigenesis and tumor progression and proposing new strategies to combat cancer. The domains of expertise are big data analysis; signaling network construction and mathematical modeling; study of synthetic interactions in cancer mechanisms, drug response prediction, patient stratification and many others (<http://sysbio.curie.fr>).

The group has long term experience in implementing scientific methodology of data and biological network analysis into user-friendly software packages, currently used by other researchers world-wide (the list of developed software can be found at <http://sysbio.curie.fr/software>).

Job description and skills

The candidate must be proficient in developing systems biology tools and methods and implementing them into software usable by others. Experience with at least one of the high-level programming languages such as JAVA, Matlab or Python will be needed for the candidate's mission. Fluent English both spoken and written is required. Familiarity in scripting languages such as R is a plus. Experience in systems biology projects, knowledge of the methods for statistical analysis of omics data and/or biological networks and basic knowledge of molecular biology are an advantage.

Degree

Master degree with experience of several years or PhD level in computer science, bioinformatics or systems biology

Send CV, motivation letter, and contacts details of 2-3 references to bcsb81@curie.fr