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Looking for an engineer position at IINS Bordeaux, "Quantitative analysis of single molecule localization data"

The Quantitative Imaging of the Cell team @ Interdisciplinary Institute for Neuroscience (IINS) is seeking to recruit a motivated software Engineer to develop quantitative analysis tools for high content analysis of single molecule localization microscopy data, building on existing acquisition and analysis techniques [1, 2]. The expected missions are: i) to develop an analysis platform to characterize fluorophore photophysics from the single molecule localization data, under various experimental conditions; ii) to help performing and optimizing the screening using the HCS-SMLM platform developed in the team.

This interdisciplinary project, which aims at designing new photo-convertible fluorescent proteins for super-resolution microscopy, will be conducted in close collaboration with the teams of Daniel Choquet at IINS, Dominique Bourgeois at IBS in Grenoble, and the Bordeaux Imaging Center.

Requirements:
Applicants are expected to have a strong background in programming (C/C++, .NET, Python). Knowledge in fundamentals of microscopy and single-molecule based super-resolution methods is recommended. The candidate needs to be motivated to be trained, if necessary, on protein labelling and advanced microscopy. Excellent communication skills, openness, and ability to collaborate in an interdisciplinary environment is required.

Details:
The position is opened, and is expected to start anytime.
Type of contract: 12 months, renewable, full time.
B.S. /M.S. in a computer science, bioinformatics or biotechnology with 1 to 3 years of work experience.
Salary: commensurate with experience

Contact:
Interested candidates should email a recent CV, a letter motivation and the names of two to three references to *jean-baptiste.sibarita@u-bordeaux.fr*.
https://www.iins.u-bordeaux.fr/SIBARITA

References:
1.   Beghin, A., et al., *Localization-based super-resolution imaging meets high-content screening.* Nat Methods, 2017. **14**(12): p. 1184-1190.
2.   Levet, F., et al., *SR-Tesseler: a method to segment and quantify localization-based super-resolution microscopy data.* Nat Methods, 2015. **12**(11): p. 1065-71.