



## **OPEN POSITION for Ph.D. Candidate**

**to be sponsored between Bruker and Pasteur-Lille under the CIFRE program**

**send CV to: [Emmanuel.paris@bruker-nano.com](mailto:Emmanuel.paris@bruker-nano.com)**

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### **SUMMARY OF RESPONSIBILITIES:**

This position will drive the development of high throughput AFM applications for SME and Pharma by:

- Working with end users to obtain relevant application data on the high throughput AFM.
- Analysis of large data sets to develop both results and best practices.
- Development of online and offline software to support applications and data reduction.
- Coordination and bridging of technical activities between Bruker and Pasteur
- Publishing peer reviewed papers as well as application notes on developed techniques.
- Additionally, developing novel combinations of AFMs and super resolution optical microscopes (PALM, STED, STORM) at Pasteur.

This position is a Graduate student position, sponsored by Bruker Corporation in collaboration with the Pasteur Institute, under the CIFRE program.

### **ESSENTIAL FUNCTIONS:**

- Develop and create a strategic portfolio of technical collaborations within University and Industrial research segments to find problems which can be addressed by high throughput AFM.
- Hands on programming of online and offline AFM functionality on Bruker's proprietary SW platforms.
- Quarterly review and presentation of collaborative and technical results.
- Co-location 50/50 between Bruker's Santa Barbara operations and Institut Pasteur, Lille, France.

### **KNOWLEDGE, SKILLS, AND ABILITIES:**

- Solid scientific background (engineering in physics and electronic, man-machine interface)
- Strong background in programming (C, C++)
- Ability to work in an interdisciplinary environment, self organized
- Fluent English both written and spoken, preferred fluency in French
- Excellent presentation, written, and verbal skills
- Ability to manage and organize multiple groups of 3-6 scientists to a common technical goal

### **EDUCATIONAL/EXPERIENCE REQUIREMENTS:**

- Prepared to start Ph.D. degree in a physics, chemistry, biology or equivalent.
- Product knowledge of Bruker Scanning Probe Microscope operation preferred
- Experience in atomic force microscopy and optical microscopy is highly desirable
- Experience in biology, microbiology, and/or cell biology is highly desirable
- Broad based proficiency in science