

Postdoctoral Fellow in Biophotonics and Bioimaging
National University of Singapore

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Posted Sep. 9, 2021, set to expire Jan. 9, 2022

Job Title	Postdoctoral Fellow in Biophotonics and Bioimaging
Department	Biomedical Engineering https://www.eng.nus.edu.sg/bme/
Institution	National University of Singapore Singapore, , Singapore
Date Posted	Sep. 9, 2021
Application Deadline	till positions are filled
Position Start Date	Oct. 1, 2021
Job Categories	Post-Doc
Academic Field(s)	Bioengineering (all Bio-related fields)
Job Website	https://www.eng.nus.edu.sg/bme/staff/dr-huang-zhiwei/
Apply By Email	biehzw@nus.edu.sg

Job Description

Position1: Postdoctoral Fellow in nonlinear optical microscopy and super-resolution microscopy

A Postdoctoral fellow position is available immediately for the project involved in the development of super-resolution nonlinear optical microscopy for label-free nano-imaging.

The candidate should have a Ph.D. degree in one of the following disciplines: Physical Optics, Applied Optics/Applied Physics; Optical Engineering and instrumentation, Biomedical Engineering or equivalent qualifications.

Demonstrated excellence in one or more of the following areas is required: super-resolution microscopy (STED, PALM, STORM, etc), nonlinear optics and microscopy (SRS/CARS, SHG, THG, etc.); fiber-optics and imaging; SERS, near-field optics and surface plasmon; tip-enhanced Raman

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technique, ultrafast laser technique; laser spectroscopy; optoelectronics.

Hands-on experience in ultrafast lasers and pulse shaping/spectral focusing are a must.

Proficiency in programming using C++, Matlab, Labview/GUI is advantageous.

Creativity and independence are highly desirable.

Position 2: Postdoctoral Fellow Position in Photoacoustic Microscopy and Optical Coherence Tomography

Job Description: A Postdoctoral fellow position is available immediately for the project which will be involved in the development of a functional photoacoustic microscopy and OCT for in vivo tissue imaging.

Requirement: The candidate should have a Ph.D. degree in one of the following disciplines: Physical Optics, Applied Optics/Applied Physics; Optical Engineering/instrumentation, Biomedical Optics, Biomedical Engineering or equivalent qualifications.

Demonstrated excellence in one or more of the following areas is required: photoacoustic fiberprobe design and fabrication, photoacoustic imager design ; optical coherence tomography (OCT) fiber probe design and fabrication, fiber-optics and imaging; ultrafast laser technique; laser spectroscopy; optoelectronics.

Hands-on experience in photoacoustic imaging and OCT is preferred

Proficiency in programming using C++, Matlab, Labview is advantageous.

Creativity and independence are highly desirable.

Position 3: Postdoctoral Fellow in Biospectroscopy and Bioimaging

Job Description: A Postdoctoral Fellow position is immediately available in Optical Bioimaging Lab in Dept of Biomedical Engineering, National University of Singapore. The successful candidate will be involved in optical biospectroscopy (SERS, FT-IR, Raman and fluorescence, etc) and microscopy imaging in biomedicine.

Requirement: The candidates should have a PhD degree in one of the following disciplines: Applied Physics/Biophysics, Analytical Chemistry, Optical Engineering, Biomedical Engineering, Biochemistry, or equivalent.

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Hands-on experience in SERS, Raman, FT-IR, L-MS, GC/LC-MS, NMR, chemometrics, and optical instrumentation, biomedical optics and imaging, such as optical spectroscopy, microscopy, and fiber optics and optical design, etc., are preferred.

Experience in SERS fabrications, cell culture and tissue handlings is plus.

Proficiencies in biostatistics (e.g., multivariate analysis), machine learning, and programming using C++, python, Matlab, are advantageous.

Position4: Postdoctoral Fellow in chemometrics for spectroscopy and imaging

Job Description: A Postdoctoral Fellow position in chemometrics analysis and high resolution FT-IR/Raman imaging for biomedical spectroscopy and bioimaging is immediately available in Optical Bioimaging Lab in Dept of Biomedical Engineering, National University of Singapore.

The candidates should have a PhD degree in one of the following disciplines: Analytical Chemistry, Applied Physics, computer science/engineering, biomedical engineering or related areas (e.g., analytical chemistry, informatics, biostatistics, signal processing etc.).

Excellent skills in chemoinformatics, bioinformatics, QSAR/QSPR/ADME modelling, statistical experimental design, high throughput screening, library design, machine learning and virtual screens are preferred.

Skilled in spectroscopic analysis and methods, like Raman, FT-IR, fluorescence, etc

Proficiency in analytical chemistry and multivariate data analysis, particularly FT-IR/Raman, HPLC, GC, MS, XPS, NMR, SEM spectroscopy.

Proficiency in biostatics and C++, MATLAB programming and Labview/GUI design, and preferably chemometric software development is advantageous.

Experience in biophotonics and biomedical Raman spectroscopy and FT-IR is also advantageous.

Interested candidates are invited to send in detailed CV together with three references listed via email

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Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

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