Research Fellow/Scientist in optical spectroscopy for biosensing and medical technology at Translational Biophotonics Laboratory (TBL), A*STAR Skin Research Labs (A*SRL), A*STAR

Translational Biophotonics Laboratory (TBL) A*SRL, A*STAR positions itself in developing next-gen optics/photonics-based technologies and platforms for health and medical applications of national priorities.

Job description:

- Develop novel optical spectroscopy platforms using nanomaterial/nanophotonics/plasmonic nanomaterials interface for biosensing in clinical translation.
- Present analysis, results and project solutions to technical leads and senior leaders as necessary
- Work closely with collaborators from various backgrounds and clinicians from hospital clusters in Singapore and overseas to develop technologies and conduct translational clinical research
- Ensure deliverables are completed on-time

Requirements:

- Ph.D in materials science engineering or bioengineering/nanophotonics/photonics or relevant field
- 2 years of relevant experience is preferred.
- Experience/skills in developing nanomaterials/nanophotonics based biosensing platforms using Raman spectroscopy/Surface Enhanced Raman spectroscopy (SERS)/Fluorescence or related sensing are preferred.
- Good skills in Nanophotonic simulation, such as FDTD
- proficient in nanomaterial surface modification is advantageous.
- Previous experience of handling optical fibers for optical sensor development is preferred.
- Data analysis using Matlab/Python is advantageous.
- Excellent oral and written skills in English
- Able to multitask and work in a multidisciplinary team, demonstrate initiative and work independently with strong interpersonal skills.
- Good publication record in international journals

Contact:

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