

RAHUL SURESH

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Dear Sir/Madam

I would like to apply for Post doctorate fellowship at your laboratory. I am currently holding a postdoc position International Research Center in of Spectroscopy and Quantum Chemistry — IRC SQC, Siberian Federal University, Russia. While I have a comprehensive physics background, my emphasis is on rehabilitation and innovation. I feel that your firm gives prominence to similar areas and it would be a privilege to work with your esteemed organization. It would be a huge step towards advancement in my career. My broad area of research is Molecular quantum physics, in which I am working on computational efforts to unwind the difficulties in material science and Bio-molecules based research works. My Ph.D. thesis entitled "Density Functional Theory Studies On the Adsorption Behaviour of Porphyrin Based Materials" is successfully defended on March 2021. Precisely, I worked on designing the porphyrin based materials, specifically modified for adsorption purposes in sensing and solid state devices. My research interests also include interdisciplinary areas like Molecular dynamic studies of membrane proteins and ion channeling and handsexperiences in synthesizing and fabricating graphene based materials for adsorption and gas sensor applications. As a postdoc, my core area of research is identifying the exfoliable 2-dimensional material from non-layered and non van der Waals material using machine learning and high throughput calculations. Apart from that, my research under this affiliation includes DFT studies on identifvina superatomic molecular orbital (SAMO) in fullerene structures and analyzing the mechanism of formation of cyclo[C18]carbon from their precursors with collaborations with experimental teams. I also contribute in identifying the electronic and optical properties of circulin molecules.

I would like to meet with you to further discuss on prospective opportunities in this regard. Thank you.

Sincerely

Rahul Suresh