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Advertisement of Junior Research Fellow (JRF) at IIT Gandhinagar

Project title: Tribological and Slippery Properties of Liquid Impregnated Micro Cavities

Project description: The project is about fabrication of hierarchically porous Zirconium oxide using colloidal processing, lithography, sacrificial templates and sintering processes and evaluating their wetting and tribological properties. Characterizations will have to be performed using dynamic light scattering experiments, SEM, BET, Zeta potential, rheometer, FTIR, contact angle goniometer, sphere on disc tribological tests, hardness tests etc. The candidate must have prior experience in one or more of the topics-powders processing, colloidal processing, characterization skills etc. The candidate should be open to learning new experimental techniques and should be a team player.

Eligibility: Masters in Materials science and Engineering/Chemical Engineering/Mechanical Engineering/Chemistry/Nanotechnology or allied fields from reputed universities with good work ethics is required. Applicants must have research specialization in one or more of the fields-ceramics processing, colloids, nanoparticles, materials characterizations. The candidate must have preferably qualified GATE/NET or equivalent examinations. Good communication skills both in scientific writing as well as in presentations are highly desirable.

Application procedure: Interested candidates must [fill this online form](#). Applications sent by filling this form are only accepted. Any queries can be directed to Dr. Sriharitha Rowthu via email (sriharitha.rowthu@iitgn.ac.in).

Deadline to apply: January 31, 2022 or until this position is filled.

Duration: The appointment will be for *one year*.

Salary: 31,000 Rs p.m.