

Applications are invited for Postdoctoral Fellowship (P.D.F)/Senior Scientist at Indian Institute of Technology (IIT)-Mandi, MANDI-175005 (H.P.), India.

Advertisement No: IITM/SKS/02/06/2017

Salary: The selected candidate will be appointed as a PDF (Postdoctoral Fellow)/Senior Scientist as a institute postdoctoral fellow for DST sponsored TSDP project entitled “**Next Generation, Cutting-Edge Indigenous EUVL Resists Technology for Semiconductor Industry**” at IIT Mandi, with salary Rs.35,000–60,000 per month **consolidated**.

Duration: Maximum Two Years, (The appointment will be made initially for a period of 1 Year , extension for one more year is possible, based on the performance.

Last Date for Application: 12/7/2017

Nature of Post: The post is purely temporary.

ESSENTIAL EDUCATIONAL QUALIFICATION: i) Potential candidates should have Ph.D. in Nanoparticles synthesis and functionalization/ Organometallic chemistry and functionalization/ Polymer Synthesis/Material Chemistry & Physics /or relevant field

ii) Quality research in the field of Nanoparticles synthesis and functionalization/ Organometallic chemistry and functionalization or next generation resists synthesis, lithography, thin film formation and characterization, relevant peer reviewed journals publications and good academic record

DESIRABLE QUALIFICATION: 1-2 year of working experience in academic and research institute/ industry/laboratory preferable.

Expertise: Applicant must has a sound knowledge of next generation lithography particularly nanoparticles synthesis and functionalization/Organometallic chemistry and functionalization/resists formulation with the inorganic & organic synthesis methodology, thin film formation, characterization through the surface analysis techniques (FESEM, TEM, FTIR, WAXS etc.) and developing condition optimization, resist patterning using electron beam lithography (EBL), extreme ultraviolet (EUV) lithography, Direct self-assembly (DSA), Block Co-polymer based patterning and pattern transfer using etching through wet and dry etching techniques. More than above, capability of writing patent, manuscript etc will be a plus and also the ability to work collaboratively in a dynamic group.

How to apply: *Eligible candidates should apply via email with full detail of their qualification on enclosed form at E-mail for applications:* palit.sharma@gmail.com

For Further Information: *Please contact the following people:*

- i). Dr.Satinder Kumar Sharma, (Asso. Prof.), SCEE, IIT-Mandi. (*For job profile, responsibilities & material science enquiry*) E.mail: satinder@iitmandi.ac.in
- ii) Prof. Kenneth E. Gonsalves, (Distinguish Prof.) SBS, IIT Mandi (*For any material chemistry, EUV, DSA enquiry*) E.mail: kenneth@iitmandi.ac.in
- iii). Dr. Subrata Ghosh, SBS, IIT-Mandi (Asso. Prof.) (*For any organic synthesis enquiry*) E.mail: subrata@iitmandi.ac.in
- iv). Dr. Pradeep Parameswaran, (Asso. Prof.) SBS, IIT-Mandi. (*For any Inorganic synthesis enquiry*) E.mail: pradeep@iitmandi.ac.in

Terms and Conditions:

- No TA/DA shall be paid to candidates for attending the Interview.
- The PI & Co-PI reserve the right to conduct or not conduct interview for the post, in case the circumstances may constitute a Screening Committee to fix criteria after taking into account the qualification and experience of the applicants to shortlist candidates to be called for interview.
- PI & Co-PIs reserve the right to fill up the post, not to fill up the post or cancel the advertisement in whole or partly without assigning any reason. The PI will also reserve the right to place a reasonable limit on the total number of candidates to be called for interview. The decision of the PI in this regard will be final.