



Annexure A2

Dated: December 04, 2017

Advertisement for a Postdoctoral Position

Applications are invited from motivated and eligible candidates for a postdoctoral position in the research project “*Design and synthesis of chalcogen stabilized metal carbonyl clusters as single source precursors for nano-structured metal chalcogenide materials*”.

Development of new methodologies to fabricate nanostructured metal chalcogenides (MCs) is important in view of their tremendous applications as energy devices including fuel cells, solar cells, light-emitting diodes, sensors, Li-ion batteries, super capacitors, thermoelectric devices and memory devices. In order to achieve high efficiency of such devices, phase purity of the fabricated material is imperative. However, existing common methodologies mostly accompanied with entrapment of organic impurities in the matrix of synthesized materials

This proposal will focus on the synthesis of some chalcogen bridged metal clusters, particularly metal carbonyl clusters, and their further employment as single source precursors for corresponding metal chalcogenide nanostructured materials to be tested for optoelectronic applications.

Eligibility: Ph.D. in Chemistry, Physics or Material Science.

Stipend:

Postdoctoral Fellow will be paid consolidated salary based on the following salary structure of the DST for Research Associate.

Category	Emoluments per month
Research Associate-I	Rs. 36,000/-
Research Associate-II	Rs. 38,000/-
Research Associate-III	Rs. 40,000/-

The category will be decided/recommended by the selection committee based on the qualification/Experience/Performance in the interview of the candidate.

Service conditions:

(i) DA: Postdoctoral Fellow will not be entitled to DA.

(ii) House Rent Allowance (HRA): All Postdoctoral Fellow may be provided accommodation based on availability and those residing in accommodation provided by the institute will not be eligible for drawing HRA. Wherever provision of hostel accommodation is not possible, HRA may be allowed to Postdoctoral Fellow as per Government norms applicable in the city/location where they are working. The fellowship amount may be taken as basic for calculating the HRA.

(iii) Medical Benefits: The Postdoctoral Fellow will be entitled for medical allowance as per institute policy.

(iv) The travel entitlement for Postdoctoral Fellow for participation in scientific events/workshops in India will continue to be as per institute norms.

Duration: The appointment is for one year.

Interested candidates are requested to submit a detailed CV to **Prof. Pradeep Mathur** via email to **director@iiti.ac.in** by December 20, 2017.

Only shortlisted candidates will be intimated by email for an interview. No TA/DA will be paid for appearing in the interview.