

**CENTRE FOR MATERIALS FOR ELECTRONICS TECHNOLOGY (C-MET)**

(Scientific Society, Ministry of Electronics and Information Technology (MeitY), Govt. of India)

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Advt. No. : HD/02/Rectt/1/SP-36/2016

**Recruitment of temporary position of “Junior Research Fellow (JRF)”****WALK-IN-INTERVIEW**

Applications are invited from highly motivated and bright candidates for the positions of Junior Research Fellow (JRF) to work under Department of Science & Technology (DST), Govt. of India funded Sponsored project entitled **“Process development for the recovery of rare earths from the end of life Compact Fluorescent Lamps (CFLs) & Fluorescent lamps (FLs)”** for a period of **36 months**. The position is purely temporary and co-terminus with the Project.

Sl. No.	Name of the Position	No. of Position	Educational Qualifications	Emoluments
1	Junior Research Fellow (JRF)	1	M. Sc. in Inorganic / Organic Chemistry with NET Qualification	Rs. 25000 + HRA@ 30%

**Age: Not exceeding 28 years as on 01.11.2016**

**WALK-IN-INTERVIEW: 28.11.2016 (MONDAY)**

Registration for Walk-in-Interview: **Between 9.00 AM to 10.00 AM.**

Candidates fulfilling the above eligibility criteria after screening in will be allowed to appear for interview on **28.11.2016 (MONDAY) at 10:30 Hrs** onwards, at the above mentioned address along with application in the prescribed format, photograph, photocopies of testimonial with original certificates for verification.

For complete details and application format please log on to: [www.cmet.gov.in](http://www.cmet.gov.in).

Sd/- DIRECTOR

### **Brief Write-Up about the Project:**

The main aim of the project is to develop the process technology for the recovery of the expensive and demanding rare earth elements known as Europium, Terbium and Yttrium. These three rare earths are used as host and dopants in the preparation of phosphors used in fluorescent lamps. Rare earth elements (REEs) include the series of 15 lanthanide metals, plus scandium and yttrium. REEs have become increasingly important in recent years because their unique chemical and physical properties have contributed to technological advances in many areas, such as wind turbines, hybrid electric vehicles, energy - efficient lighting, computers and electronics, and defense applications such as lasers. Proposed strategies for dealing with reduced rare-earth availability include recycling programs, where the phosphors from end of life fluorescent lamps/CFLs form the supply for new high-efficiency lighting.

In the present project proposal it is proposed to develop a commercially viable technical know-how for the extraction of rare earths at a lab scale, i. e 1-2 Kgs. The scope also includes after the successful development of extraction process at lab scale it would be implemented at pilot plant scale level. The process development of extraction of rare earths from waste phosphors includes: leaching, calcination, electro-refining and solvent extraction. The hands on experience on these processes with publication witness will be given preference.

### **TERMS & CONDITIONS:**

1. Nature of Position: The above position is purely temporary and time bound as mentioned above.
2. Only short listed/screened-in candidates will be allowed for attending interview.
3. Age: Not exceeding 28 years as on **01.11.2016** (relaxable in exceptional cases). Age relaxation for various categories as per GOI norms.
4. No TA/DA will be paid for attending the interview.
5. The selected candidates shall not have any legal right to claim his/her regularization/appointment by absorption or otherwise against any regular post or any further contractual engagement on termination of the scheme/project.
6. Only Indian Nationals need apply. Appointment of selected candidates is subject to his / her being declared medically fit as per the requirement of C-MET. C-MET reserves the right to cancel / terminate the candidature at any point of time during the recruitment process, if any wrong declaration, misrepresentation or concealment is detected.
7. All the candidates are required to produce original documents related to educational qualifications, date of birth, work experience, caste, etc at the time of registration / interview. Duly attested photocopies of all the documents must be enclosed along with the application form. Only self attested recent passport size photograph should be pasted in the appropriate place in the application form.

**DIRECTOR**

**(See application format below)**

## APPLICATION FORMAT

Passport  
size  
photograph  
with self  
attestation

1. Notification No. : HD/02/Rectt/1/SP-36/2016
2. Application for the position : Junior Research Fellow (JRF)
3. Name of the Candidate :  
(in Capital letters) :
4. Mother's Name :
5. Father's Name/Husband's Name :
6. Date of Birth :
7. Whether belong to SC/ST/OBC/PWD :
8. Nationality :
9. Address  
(a) Permanent : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(b) For communication : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
10. Telephone & **Mobile No** if any :
11. **Email id**, if any :

Contd..2/-

12. Educational qualifications

S. No	Name of the Exam passed	Name of the Institution/Board/ University	Month and year of passing	Marks Secured	Percentage	Class/ Division
1						
2						
3						
4						
5						
6						

13 Have you passed NET/CSIR-UGC Joint exam/GATE ?

(If 'yes' please indicate)

i) Name of the exam passed :

ii) Date of exam passed :

iii) NET/CSIR-UGC Joint exam/GATE :

Qualified certificate No.

14. Previous experience:

(Furnish Details such as post/fellowship, period worked, name of the organization/institution etc.,).

15. Present Position

i) If you are studying, please mention course/subject details.

ii) Details of fellowship/post

iii) Name of the institution/organization in which you are studying/working.

16. Projects under taken at PG level/working organization

17. References (two references) **(Must be indicated clearly)**

1.	_____	2.	_____
	_____		_____
	_____		_____

Mobile No.

Mobile No:

E-mail id:

E-mail id:

18. Any other information:

**DECLARATION**

I affirm that the information given in this application is true and correct. I also fully understand that at any stage it is discovered that an attempt has been made by me to willfully conceal or misrepresent the facts, my candidature may summarily be rejected or my employment terminated.

Date:

Signature of the Candidate