



भारतीय प्रौद्योगिकी संस्थान कानपुर  
Indian Institute of Technology Kanpur  
अधिष्ठाता प्रशासन कार्यालय  
Office of Dean, Administration

Date 27-05-2021

Advertisement No. REO/DOAD/2021/02

Indian Institute of Technology Kanpur an Institute of national importance, has been in the forefront of engineering & technology education and research & development. The Institute derives strength from its philosophy, vision and values that has led to achievement of academic excellence and promotion of high order technological research. The Office of Dean, Administration is looking for suitable Indian nationals including Persons of Indian Origins (PIOs) and Overseas Citizens of India (OCIs) for appointment on the following temporary positions for short-term R&D Projects on contractual basis for a period of maximum five years.

Designation	No. of Posts	Level (as per 7 <sup>th</sup> CPC)	Total Emoluments*
REO (Grade I)	07	11	Rs. 1,09,554/- per month (approx.)
Principal REO	01	13	Rs. 1,92,311/- per month (approx.)
<b>Total</b>	08		
<b>Maximum age limit</b>	REO (Grade I)	45 years i.e. born on or after 01-07-1976	Please see the point no. 3 of <b>General information and conditions</b> for age relaxations
	Principal REO	50 years i.e. born on or after 01-07-1971	
a. The prescribed maximum age shall be determined as on 30-06-2021 which shall be the closing date of application.			
b. Closing date for online application is 30-06-2021.			
1. *Total Emoluments means approximate total emoluments on minimum of Pay Scale in Pay Level (as per 7 <sup>th</sup> CPC) including House Rent Allowance, Dearness Allowance, Transport Allowance and employer's contribution to NPS.			
2. Reservation will be applicable as per GoI norms.			
The <b>minimum qualification, desirable qualification, experience and job specifications</b> for the above post (s), as per <b>Serial Number</b> with the Post, Department, Cadre, Number of Posts, Pay Scale & Level (as per 7 <sup>th</sup> CPC) are given below:			
➤ <b>Serial Number</b> : 01			
➤ <b>Post</b> : Principal Research Establishment Officer			
➤ <b>Department</b> : Samtel Centre for Display Technologies (SCDT)			
➤ <b>Cadre</b> : B			
➤ <b>Number of Post</b> : 01			
➤ <b>Pay Scale</b> : Rs. 1,23,100 - 2,15,900			
➤ <b>Level (as per 7<sup>th</sup> CPC)</b> : 13			

<b>Minimum</b>	M.Tech./ M.S. in Electrical Engineering/ Electronics Engineering plus 13 years relevant experience <b>OR</b> Ph.D. in Electrical Engineering/ Electronics Engineering plus 10 years relevant experience
<b>Desirable</b>	<p>The person should have experience in the area relevant to sensors development- including flexible printed sensors, electrochemical and microfluidic-based sensors. He/ she must have a proven track record of leading an R&amp;D team in the areas of flexible printed sensors development including sensing element fabrication and characterisation, industry project management, cleanroom management and establishment cutting-edge flexible printed sensors fabrication and characterisation facilities.</p> <p>The person should have worked in academia and industry, involved in industry project management while leading an R&amp;D team in flexible printed sensors prototype development. Experience in flexible printed (especially polyaniline based) thermal sensors and gas sensors prototype development including setting up parameters and target specifications, sensing element design, ink formulation, sensing element array printing, encapsulation, preconditioning, sensing and improving Technology Readiness levels (TRL) will be highly valued. Certification in six sigma and design of experiments will have an added advantage. Proven track record in setting up flexible printed sensors fabrication and characterisation facilities, project technical reports preparation as well as hiring and managing an R&amp;D team.</p>
<b>Job Specification</b>	The person will lead an R&D team for flexible electronics based sensor devices and processes, to productize the research concepts developed in the Centre, and support the research and development activities. In addition to leading the R&D team, the person is expected to acquire and manage projects in the field of flexible electronics.
<ul style="list-style-type: none"> <li>➤ <b>Serial Number</b> : 02</li> <li>➤ <b>Post</b> : Research Establishment Officer (Grade I)</li> <li>➤ <b>Department</b> : Advanced Center for Materials Science</li> <li>➤ <b>Cadre</b> : B</li> <li>➤ <b>Number of Post</b> : 01</li> <li>➤ <b>Pay Scale</b> : Rs. 67,700 - 2,08,700</li> <li>➤ <b>Level (as per 7th CPC)</b> : 11</li> </ul>	
<b>Minimum</b>	M.Tech. + 3 years of relevant experience <b>OR</b> Ph.D.

<p><b>Desirable</b></p>	<p>Person should have a Ph.D. in the relevant area of Materials Science/Metallurgical Engineering from reputed institution/ college. The relevant bachelors and/or masters degree should also be in the relevant area with marks above 60% (or above 6.5 grade point).</p> <p>Person should have very good knowledge of theoretical and practical aspects of electron microscopy and preferably hands-on expertise with electron probe micro-analysis (EPMA). <b>Providing a clear evidence of this experience/ exposure (via courses/ experience) on cover-letter is must.</b> Person should have good knowledge of energy/wavelength dispersive spectroscopy, must have hands-on experience of specimen preparation techniques for SEM/EPMA/EBSD/in-situ SEM. The person should have handled operation and maintenance of instruments in general (preferably SEM/ EPMA). The person is expected to have good technical expertise and good communication skills and should have good aptitude for advanced research and development in materials. Working knowledge of office applications (word/power-point/excel/etc) is also necessary.</p>
<p><b>Job Specification</b></p>	<p>Person will be fully responsible for operation and maintenance of all SEMs/EPMA and EM related specimen preparation equipment in ACMS. Person should also assist with routine maintenance, up-keep/scheduling, trouble-shooting, and supervising day-today operations. In addition to assisting and facilitating the internal/external users, the REO is also expected to write proposals, bring funding and publish high quality papers in this domain.</p>
<ul style="list-style-type: none"> <li>➤ <b>Serial Number</b> : 03</li> <li>➤ <b>Post</b> : Research Establishment Officer (Grade I)</li> <li>➤ <b>Department</b> : Sustainable Energy Engineering (SEE)</li> <li>➤ <b>Cadre</b> : B</li> <li>➤ <b>Number of Post</b> : 01</li> <li>➤ <b>Pay Scale</b> : Rs. 67,700 - 2,08,700</li> <li>➤ <b>Level (as per 7th CPC)</b> : 11</li> </ul>	
<p><b>Minimum</b></p>	<p>M.Tech. or M.Sc. in Chemistry/ Physics/ Chemical Engineering/ Electrical Engineering/ Material Sciences and Engineering with 3 years of relevant experience  <b>OR</b>  Ph.D. in Chemistry/ Physics/ Chemical Engineering/ Electrical Engineering/ Material Sciences and Engineering</p>

<b>Desirable</b>	<p>The desired experience for the candidate includes (but is not limited to) the following areas:</p> <ol style="list-style-type: none"> <li>Demonstrated evidence of research experience in experimental areas related to material synthesis, characterization, and their utilization in areas related to energy and environment.</li> <li>Experience in experimental lab set-up and maintenance, purchase of chemicals and equipment, etc.</li> <li>Demonstrated evidence of hands-on experience in handling and maintaining equipment for physical, chemical, and functional characterization of materials and composites in various forms.</li> <li>Good oral and written communication skills in English</li> </ol>
<b>Job Specification</b>	<p>The successful candidate is expected to support and manage the establishment of teaching and research laboratories of the Department of Sustainable Energy Engineering (SEE). The responsibilities include, but are not limited to, setting up new labs, procurement of instruments and their maintenance, preparation of teaching lab manuals, active participation in the conduct of lab courses and TA management, operation and maintenance of complex research equipment, assistance in writing proposals, training of research staff/students, and any other duty assigned by the HoD.</p>
<ul style="list-style-type: none"> <li>➤ <b>Serial Number</b> : 04</li> <li>➤ <b>Post</b> : Research Establishment Officer (Grade I)</li> <li>➤ <b>Department</b> : SIIC</li> <li>➤ <b>Cadre</b> : A</li> <li>➤ <b>Number of Post</b> : 01</li> <li>➤ <b>Pay Scale</b> : Rs. 67,700 - 2,08,700</li> <li>➤ <b>Level (as per 7th CPC)</b> : 11</li> </ul>	
<b>Minimum</b>	<p>B.Tech. or B.S. + 5 years of relevant experience  <b>OR</b>  M.Tech. or M.Sc. + 3 years of relevant experience  <b>OR</b>  Ph.D.</p>
<b>Desirable</b>	<ol style="list-style-type: none"> <li>Area of expertise should be RTTP in technology transfer &amp; licensing, with 8 years or more of relevant experience in IPR and Technology Transfer.</li> <li>Post Graduate Diploma in IPR from a reputed University/ Institute.</li> <li>Candidates having L.L.B. Degree from a recognized university should be preferred.</li> <li>Experience of IPR management &amp; Technology Transfer in a reputed organization like IITs, NITs or IISERs.</li> <li>Clear understanding of IP ownership issues pertaining to contracts and agreements.</li> </ol>

<b>Job Specification</b>	<p>a) Intellectual Property portfolio management, Technology transfer activities, agreement drafting/ interpretation &amp; execution.</p> <p>b) Technology Valuation, licensing negotiating with industry partners.</p> <p>c) Drafting and vetting of contracts and agreements such as license agreements, confidentiality agreements, collaboration agreements, NDAs, etc.</p> <p>d) Interacting with patent attorneys &amp; inventors on day-to-day basis.</p> <p>e) Facilitating IP support to Faculty members &amp; students.</p> <p>f) Preparing Patent search reports, patentability assessment &amp; techno-commercial assessment of inventions.</p> <p>g) Evaluation &amp; Assessment of technical report of inventions.</p> <p>h) Supervising the IPR activities, Preparation and compliance of internal SOPs related to IPR &amp; Technology Licensing.</p>
<ul style="list-style-type: none"> <li>➤ <b>Serial Number</b> : 05</li> <li>➤ <b>Post</b> : Research Establishment Officer (Grade I)</li> <li>➤ <b>Department</b> : Center for Lasers and Photonics (CELP)</li> <li>➤ <b>Cadre</b> : A</li> <li>➤ <b>Number of Post</b> : 01</li> <li>➤ <b>Pay Scale</b> : Rs. 67,700 - 2,08,700</li> <li>➤ <b>Level (as per 7th CPC)</b> : 11</li> </ul>	
<b>Minimum</b>	<p>B.Tech. (Optoelectronics or Photonics or Applied optics) or allied areas of Optics with 5 years of relevant experience</p> <p><b>OR</b></p> <p>M.Tech. (Optoelectronics or Photonics or Applied optics) or allied areas of Optics with 3 years of relevant experience</p> <p><b>OR</b></p> <p>Ph.D. (Optoelectronics or Photonics or Applied optics) or allied areas of Optics</p>
<b>Desirable</b>	<p>Eight or more years of extensive experience in high power as well as ultrafast Lasers. Hands on experience in maintenance and working of Nd:YAG Laser, Excimer laser, Fiber laser and Femtosecond laser systems and also the associated experience in high end and optics, camera and other measurement protocols. Experience in micro- and nano-fabrication and computer interfaced data acquisition. Experience in running, maintenance and management of high-end research facilities is required.</p>

<b>Job Specification</b>	Maintenance and upkeep of sophisticated research equipment, some of which are multi-user facilities such as the femtosecond laser facility, and nano – and pico-second laser systems. The candidate will also be engaged in development of new measurement techniques, automation, project management, purchase, stock management. In addition, the candidate is required take part in performing experiments and activities related to the research program of the laboratory.
<ul style="list-style-type: none"> <li>➤ <b>Serial Number</b> : 06</li> <li>➤ <b>Post</b> : Research Establishment Officer (Grade I)</li> <li>➤ <b>Department</b> : Physics</li> <li>➤ <b>Cadre</b> : A</li> <li>➤ <b>Number of Post</b> : 01</li> <li>➤ <b>Pay Scale</b> : Rs. 67,700 - 2,08,700</li> <li>➤ <b>Level (as per 7th CPC)</b> : 11</li> </ul>	
<b>Minimum</b>	B.Tech./ B.S. with 5 years of relevant experience <b>OR</b> M.Tech./ M.Sc. with 3 years of relevant experience <b>OR</b> Ph.D. (Physics)
<b>Desirable</b>	Ph.D. in Physics with extensive experience in of in-house development of scientific equipment and automation, cryogenics, vacuum technology, thin film processing, magnetic and magneto-transport measurements, ferromagnetic resonance. Experience in maintenance and management of research facilities as well as assisting/ writing research grant proposal is required.
<b>Job Specification</b>	Maintenance and upkeep of sophisticated research equipments, some of which are multi-user facilities, operation of cryogenic equipments like x-ray diffractometer, Pulsed Laser deposition system, ferromagnetic resonance, scanning probe microscope, arc Melter, thermal evaporation. The candidate will also be engaged in development of new measurement techniques, automation, project management, purchase, stock management. In addition the candidate is required take part in performing experiments and data ananalysis related to the research program of the laboratory.
<ul style="list-style-type: none"> <li>➤ <b>Serial Number</b> : 07</li> <li>➤ <b>Post</b> : Research Establishment Officer (Grade I)</li> <li>➤ <b>Department</b> : Materials Science &amp; Engineering</li> <li>➤ <b>Cadre</b> : A</li> <li>➤ <b>Number of Post</b> : 01</li> <li>➤ <b>Pay Scale</b> : Rs. 67,700 - 2,08,700</li> <li>➤ <b>Level (as per 7th CPC)</b> : 11</li> </ul>	

<b>Minimum</b>	B.Tech. in Materials Science and Engineering/ Metallurgical Engineering with 5 years relevant experience <b>OR</b> M.Tech./ M.Sc. in Materials Science and Engineering/ Metallurgical Engineering with 3 years relevant experience <b>OR</b> Ph.D. in Materials Science and Engineering/ Metallurgical Engineering
<b>Desirable</b>	Good educational background and proven expertise in materials characterization tools and techniques. Hands on experience in the usage and maintenance of hardware/software of characterization equipment (i) TEM, STEM, HAADF, HRTEM; (ii) SEM, EDS, EBSD, EPMA, etc. Preference will be given to candidates with postgraduate degree/Ph.D. with thesis work with substantial content involving transmission electron microscopy and related techniques. Experience in instrumentation will be given preference.
<b>Job Specification</b>	The research officer is expected to help in maintenance and operation of electron microscopy and related sample preparation facilities. More specifically, the candidate is expected to manage characterization equipment, particularly electron microscopy facilities consisting of (i) SEMs with EDS- EBSD and other attachments; (ii) TEM/HRTEM with EDS and HAADF and (iii) complete range of electron microscopy samples preparation accessories that are housed in MSE department. The research officer is expected to train researchers and help/guide researcher in handling such instruments. S/he is expected to assist in conducting teaching laboratories involving these facilities. The officer is also expected to assist faculty in conducting short-term courses and workshops periodically arranged by the Department.
<ul style="list-style-type: none"> <li>➤ <b>Serial Number</b> : 08</li> <li>➤ <b>Post</b> : Research Establishment Officer (Grade I)</li> <li>➤ <b>Department</b> : Materials Science &amp; Engineering</li> <li>➤ <b>Cadre</b> : A</li> <li>➤ <b>Number of Post</b> : 01</li> <li>➤ <b>Pay Scale</b> : Rs. 67,700 - 2,08,700</li> <li>➤ <b>Level (as per 7th CPC)</b> : 11</li> </ul>	
<b>Minimum</b>	B.Tech in Materials Science and Engineering/ Metallurgical Engineering with 5 years relevant experience <b>OR</b> M.Tech/ M.Sc. in Materials Science and Engineering/ Metallurgical Engineering with 3 years relevant experience <b>OR</b> Ph.D. in Materials Science and Engineering/ Metallurgical Engineering

<b>Desirable</b>	Good educational background and relevant experience at both operational as well as managerial aspects of Raman, photoluminescence and optical spectroscopy, materials science, manufacturing and process metallurgy related equipment's/ lab. Preference will be given to candidates with five plus year experience in developing experiments and establishing facilities and conducting short term course/workshops. Experience in instrumentation will be given preference.
<b>Job Specification</b>	The research officer is expected to help in maintenance and operation of Raman, photoluminescence and optical spectroscopy, materials science, manufacturing and process metallurgy related equipment 's/lab. More specifically, the research officer is expected to assist in shifting the core teaching labs (TA 201, ESO 205, MSE 314) to the new core building and establish new facilities such as ICME and FIST. H/She should help in developing and conducting teaching laboratories involving processing/ manufacturing/ functional materials laboratory and train/assist researchers in the usage of the processing/ characterization equipment. The research officer is expected to train researchers and help/guide researcher in handling processing/ characterization equipment. S/he is expected to assist in conducting teaching laboratories involving these facilities. The officer is also expected to assist faculty in conducting short-term courses and workshops periodically arranged by the Department.

**General information and conditions:**

**1. Benefits, terms and conditions under DOAD service:**

- a. These posts carry Dearness Allowance (DA), House Rent Allowance (HRA) and Transport Allowance (TA) as admissible to the central government employees and as made applicable to the Institute.
- b. In addition to the emoluments indicated against each category of posts, benefits such as applicability of New Pension Scheme 2004, facility of health centre for self and dependents are available as per Institute rules.
- c. As REOs are purely temporary & contractual positions, benefits that are applicable only to permanent employees of the Institute (e.g., LTC with leave encashment, Personal Computer Advance, Children Education Allowance, Leave Encashment, Telephone Bill Reimbursement) will not be applicable to them.
- d. Each appointment will be made on contractual basis initially for a period of maximum three years, extendable up to two years on noteworthy performance.
- e. Earned leave, half pay leave and casual leave will be admissible as per rule.



## 2. Other conditions

- a. The applicant must be a citizen of India. Persons of Indian Origins (PIOs) and Overseas Citizens of India (OCIs) will also be considered.
- b. All applicants must fulfill the essential requirements of the post and other conditions stipulated in the advertisement as on the last date of receipt of the applications. They are advised to satisfy themselves before applying that they possess at least the essential qualifications laid down for various posts as on the last date of receipt of the applications. No enquiry asking for advice as to eligibility will be entertained.
- c. The prescribed essential qualifications are the minimum and the mere possession of the same does not entitle candidates to be called for interview. The duly constituted Screening Committee may adopt its own criteria for shortlisting the candidates. The candidate should therefore, mention in the application all the qualifications and experiences in the relevant area over and above the minimum prescribed qualification, supported with self-certified documents. Completion of Ph.D. degree will be reckoned from the date of issue of provisional certificate/ notification.
- d. The prescribed qualifications should have been obtained through recognized Universities/ Institutions. Incomplete application/applications received or not accompanied with the required certificates/ documents/ Fees are liable to be rejected.
- e. In respect of equivalency clause in Essential Qualifications, if a candidate is claiming a particular qualification as equivalent qualification as per the requirement of the advertisement, then the candidate is required to produce at the time interview the relevant certificate in this regard, indicating the Authority (with number and date) under which it has been so treated otherwise the application is liable to be rejected.
- f. The period of experience rendered by a candidate on part time basis, daily wages, visiting/ guest faculty will not be counted while calculating the valid experience for short listing the candidates for interview.
- g. If any document/ certificate furnished are in a language other than Hindi or English, a transcript of the same duly attested by a Gazetted officer or notary is to be submitted.
- h. The date for determining the upper age limit, qualification and/ or experience shall be the closing date prescribed for receipt of applications.
- i. The period of experience shall be counted after the date of acquiring the minimum prescribed educational qualifications.
- j. Persons with disabilities (**PWD**) fulfilling the eligibility conditions prescribed under GoI instructions are encouraged to apply.
- k. In case a candidate is staying abroad, his/ her candidature may be considered in absentia by the Selection Committee on his/ her written request.
- l. The Selection Committee may choose to place the candidate in any of the Pay Scale within the Pay Level depending upon the performance of the candidate and subject to meeting the minimum eligibility criterion specified.
- m. Only outstation candidates called and found eligible for interview will be paid to

and fro single second AC rail fare from the actual place of undertaking the journey or from the normal place of their residence whichever is nearer to Kanpur on production of Rail Tickets/ Rail Ticket Numbers or any other proof of journey. Any discrepancy found between the information given in application and as evident in original documents will make the candidate ineligible for appearing in interview. Such candidate will not be paid any fare.

- n. The decision of the Institute in all matters relating to eligibility, acceptance or rejection of applications, mode of selection, and conduct of examination/ interview will be final and binding on the candidates.
- o. The Institute reserves the right not to fill up the posts, cancel the Advertisement in whole or in part without assigning any reason and its decision in this regard shall be final.
- p. Canvassing in any form and/ or bringing any influence will be treated as a disqualification for the post.
- q. In case of Universities/ Institutes awarding CGPA/SGPA/OGPA grades, candidates are requested to convert the same into percentage based on the formula as per their Universities/ Institutes.
- r. Application with relevant document must be submitted online only. No hard copy need to be sent.
- s. **No Interim Enquiry or Correspondence will be Entertained.**

### **3. Relaxations:**

- a. The upper age limit is relaxable upto five years for SC/ ST and three years for OBC as per rule, on production of relevant certificate in the prescribed format signed by the specified authority at the time of interview.
- b. Upper age limit is also relaxable upto five years for the regular employees working in Institute laboratories/ Institutes, Government departments, autonomous bodies and public sector undertakings.
- c. Relaxation in upper age limit for Persons with Disabilities and ex-servicemen will be as per rules.
- d. Relaxation in age, over and above the stipulated limit, educational qualification and/ or experience may be considered in case of exceptionally meritorious candidates or if sufficient number of candidates possessing the requisite qualification and/ or experience is not available to fill up the posts.
- e. Regular employees of IITs who are educationally qualified and otherwise eligible can be considered for the recruitment up to fifty years of age.
- f. Age relaxation for Project Employees working in IIT Kanpur will be as per the Office Order No. DIR/IITK/2019/OO-73 dated July 04<sup>th</sup>, 2019.

### **4. How to apply:**

- a. Eligible candidates are required to apply only through **ONLINE portal [www.iitk.ac.in/doad/reo-recruitment](http://www.iitk.ac.in/doad/reo-recruitment)**.

- b. If the candidate does not have a valid email id, he/ she should create a new valid email id before applying online.
- c. Online Application will be available on our website from 27-05-2021 to 30-06-2021.
- d. Application fee of Rs. 1000/- shall be paid through online portal except for Exempted Category. The candidates belonging to SC/ST/PWD/Women/Abroad candidates category are exempted from submission of application fee.
- e. Application once made will not be allowed to be withdrawn and fees once paid will not be refunded on any count nor can it be held in reserve for any other recruitment or selection process.
- f. Applications from employees of Government departments will be considered only if forwarded through proper channel, certified by the employer that the applicant, if selected will be relieved within one month of the receipt of the appointment orders. Also, vigilance clearance should also be recorded. However, advance copy of the application may be submitted before the closing date. Applications routed through proper channel should reach Institute at the earliest.

**Following documents need to be uploaded/ paid while submitting online form:**

- a. Online Payment of Rs. 1000/- as application fee, where applicable.
- b. Recent colored photograph and signed must be uploaded.
- c. Self-attested photocopy of Date of Birth certificate.
- d. Self-attested photocopies of educational certificates.
- e. Self-attested photocopies of experience certificates, if any.
- f. Self-attested photocopy of caste certificate, if applicable.

**Important Note:**

1. Any Amendment/ Corrigendum/ Submission date extension in respect of above advertisement shall be issued on our website [www.iitk.ac.in/doad/reo-recruitment](http://www.iitk.ac.in/doad/reo-recruitment) only and no separate notification shall be issued in the newspaper/ press. Candidates are therefore requested to regularly visit our website to keep themselves updated.
2. In case of any dispute, decision of the Director, IIT Kanpur, shall be final.

**Copy forwarded to:**

- a) All Heads of Departments/ Sections/ IDPs/ Centres/ Units with the request to extend it wide publicity.
- b) Also to the following for information, please.
  - (i) Director's Office
  - (ii) Deputy Director's Office
  - (iii) SC/ST Cell
  - (iv) Notice Boards

Sd/-  
Deputy Registrar,  
Office of Dean, Administration, FB-211  
Indian Institute of Technology Kanpur  
Uttar Pradesh - 208016