



**INTERNATIONAL ADVANCED RESEARCH CENTRE FOR
POWDER METALLURGY AND NEW MATERIALS (ARCI)**
(An Autonomous R&D Centre of Department of Science & Tech., Govt. of India)
Balapur Post, HYDERABAD – 500 005, TELANGANA, India

Advt. No. ARCI/HRD/TRC/RECT/1/2016

**RECRUITMENT OF SCIENTIFIC AND TECHNICAL STAFF
ON CONTRACT BASIS FOR SPONSORED PROJECT**

LAST DATE FOR RECEIPT OF FILLED-IN APPLICATIONS IS 28th March, 2016.

ARCI is looking to engage Scientific and Technical Personnel at different levels on “Contract Basis” to work on a major time-bound project entitled “**Alternate Energy Materials and Systems**” sponsored by Department of Science & Technology (DST), Government of India. Focus will be on research and development of technologies in the areas such as solar energy (CSP, PV), energy storage (batteries & super capacitors), energy efficiency (motors, waste heat recovery, turbines, coatings), energy conversion (fuel cells) and electric/hybrid vehicle systems (involving Li-ion batteries with battery management systems, electric motors etc.). Positions are available at different levels in the above areas at ARCI’s Hyderabad or Chennai Centres.

| No. | Name of the post with Details | Qualifications/Experience |
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| 01. | <p>Project Scientist (Senior Level I) Post Code : S 001 Consolidated Salary : ₹ 1,21,000/- (minimum per month)</p> <p>Project Scientist (Senior Level II) Post Code : S 002 Consolidated Salary : ₹ 80,000/- (minimum per month) Age Limit : Not exceeding 45 years</p> <p>No. of Posts : four (04) (depending on number of years of experience, candidates will be engaged at any of the above levels).</p> | <p>Essential: Master’s degree in Physical Sciences or Bachelor’s Degree in Engineering/Technology from a recognized University.</p> <p>Desirable:</p> <p>a) Ph.D. in related subject from a recognized University. b) Published research work of high standard and/or good record of patents granted/filed. c) Experience in managing and directing R&D projects/programmes.</p> <p>Experience: 10/8 years R&D experience in an area relevant to theme of the project in Industrial/Academic Institutions and/or Science & Technology Organizations.</p> <p>Job Requirement : The candidates are expected to lead a team of personnel and actively participate in formulating and executing different R&D programmes consistent with the theme of the sponsored project for product/process development, including subsequent scaling up of technologies to pilot plant level and demonstration of their application potential for their eventual transfer to the industry.</p> |

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| Specific Job Requirements : (for Project Scientist (Senior level I & II)) | | The candidates should have appropriate application development expertise in the following areas as evidenced by peer reviewed publications and patents: |
| i) | Lithium ion battery fabrication and battery plant operation including slurry preparation, fabrication of electrodes, cell assembly, cell/battery testing and characterization. | |
| ii) | Processing and characterization of Hard/Soft magnetic materials for the application of motors/alternator for hybrid/electric vehicles. | |
| iii) | Development of thermoelectric materials and fabrication of thermoelectric devices and testing for automotive applications. | |
| iv) | Fabrication of CIGS thin film based solar cell devices, characterization and performance evaluation. | |
| v) | Fabrication of electrochemical super-capacitor devices, characterization and performance evaluation. | |
| No. | Name of the post with Details | Qualifications/Experience |
| 02. | Project Scientist (Middle Level) Post Code : S 003 No. of Posts : four (04) Consolidated Salary : ₹ 70,000/- (minimum per month) Age Limit : Not exceeding 40 years | Essential: Master's degree in Physical Sciences or Bachelor's Degree in Engineering/Technology from a recognized University. Desirable: a) Ph.D. in related subject from a recognized University. b) Published research work of high standard and/or good record of patents granted/filed. Experience: 4 years R&D experience in an area relevant to theme of the project in Industrial/Academic Institutions and/or Science and Technology Organizations. Job Requirement : The candidates are expected to actively participate in implementing various R&D activities for product/process development consistent with the theme of the sponsored project. Subsequent and continued demonstration their application potential is also anticipated. |
| Specific Job Requirements: | | The candidates should have appropriate application development expertise in the following areas as evidenced by peer reviewed publications patents: |
| i) | Lithium ion battery anode and cathode slurry preparation and rheological characterization. Electrode and cell fabrication and testing. | |
| ii) | Development and characterization of Hard/Soft magnetic materials for the application of motors/alternator for hybrid/electric vehicles. | |
| iii) | Fuel cell electrodes, stack assembly, testing and catalyst development and characterization. | |
| iv) | Fabrication of CIGS thin film based solar cell devices, characterization and performance evaluation | |
| v) | Fabrication of electrochemical super-capacitor devices, characterization and performance evaluation. | |

| No. | Name of the post with Details | Qualifications/Experience |
|-----|---|---|
| 03. | <p>Project Junior Scientist Post Code : S 004 No. of Posts : *eight (08) (*UR = 5; OBC = 2; SC = 1) Consolidated Salary : ₹ 59,000/- (minimum per month) Age Limit : Not exceeding 28 years</p> <p><i>Please note</i> : As the project is of short gestation period, 25% of the above posts will be filled by candidates possessing very specific experience relevant to the project. In such cases, age will not be a constraint.</p> | <p>Essential: Master's degree in Physics/ Chemistry/Materials Science or Bachelor's Degree in Metallurgical/Materials/Mechanical/ Chemical/Electrical & Electronics, Electronics & Communication Engineering from a recognized University.</p> <p>Desirable: Minimum 3 years of experience in the relevant areas consistent with the theme of the sponsored project will be an added advantage.</p> <p>Job Requirement: Active participation in various R&D efforts taken up as part of the sponsored project.</p> |
| 04. | <p>Project Technical Assistant (Senior/Junior levels) Post Code : PTA 01 No. of Posts : *ten (10) (*UR = 7; OBC = 2; SC = 1) Gross Salary : ₹ 35,000-45,000/- (minimum per month) Age Limit : Not exceeding 30 years</p> <p><i>Please note</i> : As the project is of short gestation period, 25% of the above posts will be filled by candidates possessing very specific experience relevant to the project. In such cases, age will not be a constraint.</p> | <p>Essential: Bachelor's degree in Physical Sciences or three years Diploma in Chemical/ Mechanical/Metallurgical/Electrical and Electronics Engineering from a recognized University or Institute.</p> <p>Desirable Experience: Technical experience of 2 years or more in industry/R&D laboratories in any of the following areas will be an added advantage:</p> <p>01. Lithium ion battery fabrication and battery plant operation including slurry preparation, fabrication of electrodes, calendaring, winding, welding, cell assembly, cell/battery testing and characterization. OR</p> <p>02. Processing and characterization of Hard/ Soft magnetic materials/thin films for the application of motors/alternator for hybrid/ electric vehicles. OR</p> <p>03. Working experience in the areas of fuel-cell, super-capacitor, solar energy, magnetic materials etc.,</p> <p>Job Requirement : Candidates selected will be providing technical assistance in the project.</p> |

Other Benefits: In addition to the above Consolidated Salary, benefits such as Employees Provident Fund (EPF), Medical Insurance for self/nuclear family members, paid leave (as per norms) etc., are available.

HOW TO APPLY : Interested candidates fulfilling the above eligibility criteria shall submit their applications duly completed in all respects through **email or by post (please download the application format)**. The application should contain complete and definite information in respect of each of the columns.

Through Email: This is the preferred mode of submission. Completed Applications shall be submitted **as an attached word document file or PDF file** by email to : **rectt@arci.res.in.**

By Post: In case of any difficulty in email submission the same may please be sent to: **THE DIRECTOR-ARCI, Post Box No. 312, Hyderabad GPO, HYDERABAD-500 001 TELANGANA, India so as to reach on or before 28th March, 2016.** The applications should be sent by **ordinary post only** in a cover superscribed "Application for the post of _____" (name of the post applied for).

Please Note : **ARCI reserves right to increase the number of posts depending on the requirements for sponsored projects of shorter duration other than the above stated sponsored project.**

GENERAL TERMS AND CONDITIONS

01. Candidates shall use prescribed application form only. Candidates apply for more than one post shall use separate application form for each post.
02. Engineering/Science/Diploma candidates who are at present in their final year/semester and will be completing in May/June 2016 can also apply.
03. For email submission, please insert scanned photo with signature (if possible) at the space provided in the application form at page 1, and scanned signature at page no. 5 (for Project Scientist-Senior/Middle levels) and at page no. 4 (for Project Junior Scientist/Project Technical Assistant). Application can be sent **as an attached word document file or PDF file** (not in picture formats like JPEG, TIFF etc.).
04. In case applications are submitted through email, a hardcopy of the application, duly supported by attested copies of educational qualifications, experience, caste (in case of SC/ST/OBC) certificates etc., will have to be submitted by short-listed candidates at the time of interview.
05. Candidates who are staying abroad and interested in applying for scientific posts shall submit their applications by email. However, a hardcopy of the application alongwith educational qualifications/experience certificates etc., shall be sent by post.
06. Age should not exceed the limit indicated as on the closing date of receipt of completed application forms. However, upper age limit is relaxable by **5 years** for SC/ST and **3 years** for OBC (Non-creamy layer) candidates. Age relaxation for Persons with Disabilities shall be as per Govt. of India orders. Scanned copy of the relevant certificate in the prescribed form (duly attested photo copy) issued by the competent authority in support of the claim as belonging to SC/ST/OBC/PH must be enclosed with the email application.
07. Consolidated salary as shown against each post represents the minimum emoluments, inclusive of all applicable allowances. The candidates selected will not be entitled to any benefits or concessions admissible to regular employees.
08. If a candidate is presently employed in a government organization, the application shall be considered only if forwarded through proper channel. However, an advance copy should reach us by email well before the last date.
09. Number of positions as given is provisional and the total numbers to be filled-in shall depend upon the actual requirement at the time of recruitment vis-à-vis the need and will depend on the availability of requisite talent among those who have applied for the posts.
10. Period of experience mentioned against the above said post(s) shall be counted from the date of acquiring the prescribed essential qualifications that are obtained from recognized universities/Institutions.
11. Mere fulfilling the minimum prescribed qualifications and experience will not vest any right in a candidate for being called for personal interview. ARCI reserves all rights to screen the applications and short-list candidates to be called for personal interview.
12. Age limit, qualification and/or experience can be relaxed by the competent authority in case of exceptionally meritorious candidates.

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13. Since, the project is time-bound with short gestation period and committed deliverables requiring expertise in very specific fields. Accordingly, experience in relevant fields is very critical. Therefore amongst the candidates meeting the essential qualifications, those having requisite experience will be given preference over the other candidates.
14. Candidates should note that the details provided by them in their application are taken at their face value and the onus of proving the correctness and authenticity of the same, as and when required, lies with the candidates.
15. In all matters relating to this advertisement and subsequent processing, the decision of the competent authority, ARCI will be final and binding.
16. Only outstation (within India), candidates called for personal interview will be paid single to & fro second class rail fare/ordinary bus fare by shortest route as admissible, on production of tickets.
17. Candidates selected for the above posts will be offered purely temporary appointment on contractual basis to work on the time-bound sponsored project entitled “**Alternate Energy Materials and Systems**” sponsored by Department of Science & Technology (DST), Government of India. They shall not have any right to claim regular appointment in ARCI or DST. Selected candidates will be posted at ARCI’s Hyderabad or Chennai Centres.
18. Term of the contract engagement will be co-terminus with the Project **i.e. upto December 2020** or earlier, purely based on the performance of the candidate appointed.
19. The contract will be reviewed every year. Depending on quantum and quality of output during the year, as assessed by an Expert Committee, the contract may be extended with/without granting a lumpsum increment, or terminated.
20. **Reference details (for Project Scientist–Senior/Middle/Junior levels):** The candidate is requested to give complete name, designation and full postal address with phone/fax & e-mail ID of referees. One of the referees should be preferably from the current/most recent employer or immediate superior. The referees listed should ideally be closely familiar with the candidate’s professional work or familiar with the candidate as his/her professor.
21. **Applications received late for any reason whatsoever, or incomplete in any manner, shall not be considered. Interim enquires will not be entertained.**
22. **Canvassing if any form shall be considered as disqualification.**
23. **For all communications related to this advertisement, candidates are advised to visit ARCI website only.**
24. **Last Date for Receipt of Filled-in Applications is 28th March, 2016.**