



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

Advt. No. ARCI/HRD/TRC/RECT/2/2016

**RECRUITMENT OF PROJECT SCIENTISTS AND TECHNICAL STAFF
ON CONTRACT BASIS**

LAST DATE FOR SUBMISSION OF ONLINE APPLICATIONS IS 16th DECEMBER, 2016.

ARCI is looking to engage Project Scientists and Technical Staff at different levels purely on “**Contract Basis**” to work on a major time-bound project titled “**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.). The following positions are available in the above areas and depending on the project requirements, the selected candidates will be posted at ARCI’s Chennai or Hyderabad Centres:

No.	Name of the post with Details	Qualifications/Experience
01.	<p>Project Scientist (Senior Level I) Post Code : 01 Consolidated Salary : ₹ 1,21,000/- (Approximate per month)</p> <p>Project Scientist (Senior Level II) Post Code : 02 Consolidated Salary : ₹ 80,000/- (Approximate per month) Age Limit : Not exceeding 45 years</p> <p>No. of Posts : five (05) <i>(depending on number of years of experience, candidates will be engaged at any of the above levels).</i></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.</p> <p>b) Published research work of high standard and/or good record of patents granted/filed.</p> <p>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>

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 & performance evaluation.	
No.	Name of the post with Details	Qualifications/Experience
02.	Project Scientist (Middle Level) Post Code : 03 No. of Posts : five (05) Consolidated Salary : ₹ 70,000/- (Approximate 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 of 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 and 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 : 04 No. of Posts : *eight (08) (*OC = 4 ; OBC = 2 ; SC = 1 ; ST = 1) Consolidated Salary : ₹ 59,000/- (Approximate 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 (Junior/Senior levels) Post Code : 05 No. of Posts : *twelve (12) (*OC = 6 ; OBC = 3 ; SC = 2 ; ST = 1) Consolidated Salary : ₹ 35,000-45,000/- (Approximate 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> <ol style="list-style-type: none"> 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 02. Processing and characterization of Hard/ Soft magnetic materials/thin films for the application of motors/alternator for hybrid/ electric vehicles. OR 03. Working experience in the areas of fuel-cell, super-capacitor, solar energy, magnetic materials etc., <p>Job Requirement : Candidates selected will be providing technical assistance in the project.</p>

ARCI strives to have a workforce which reflects gender balance and women candidates are encouraged to apply

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.

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.

Mode of Selection

- (a) Selection for the posts of Project Scientist (Senior Level I&II, Middle level and Junior level) will be through personal interview for the short-listed candidates.
- (b) Selection for the post of Project Technical Assistant will be through written test/trade or skill test for the short-listed candidates.

HOW TO APPLY: The Interested candidates fulfilling the above eligibility criteria shall necessarily submit their applications **ONLINE ONLY**. The online application should contain complete and definite information in respect of each of the columns. Applications received through any other mode (other than online) will not be accepted and summarily will be rejected.

Before filling in the Online application, candidates are advised to read carefully the following instructions for online submission and general terms and conditions.