



International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI)

An Autonomous R&D Centre of Department of Science & Technology, Govt. of India

RCI-New Airport Road, Balapur, Hyderabad-500 005, Telangana.
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Advt. No. ARCI/HRD/RECT/1/2025

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

RECRUITMENT OF SCIENTISTS

Last Date for Submission of Online Applications 28th July 2025

ARCI is an autonomous R&D centre of Department of Science & Technology (DST), Government of India with a mission to develop highly competitive and commercially viable technologies for Indian and global markets. ARCI offers an excellent work environment with modern facilities and intellectual freedom for motivated individuals to realize their full creative potential. ARCI currently have openings for filling-up of **Scientists positions** at various levels on a direct recruitment basis. Online applications are invited from interested, dynamic and dedicated Indian citizens having consistently good academic record and relevant experience to fill the following posts:

| Sl. No. | Name of the posts with Details Qualification & Experience |
|---------|---|
| 01. | <p>Post Code : E 001</p> <p>Name of the post : SCIENTIST "E"</p> <p>No. of Posts : Three (3)</p> <p>Pay level : 13</p> <p>Total emoluments: Rs. 2,38,895/- approximately</p> <p>Upper Age limit : Not exceeding 45 years</p> <p>Mode of Recruitment: Direct recruitment</p> <p>Mode of Selection : Presentation on R&D achievements, project/programs in line with ARCI's R&D activities and followed by Personal Interview.</p> <p>(a) Essential: (i) Doctorate Degree in Physical Sciences or Master's Degree in Engineering or Technology from a recognized University or equivalent.</p> <p>(ii) Ten (10) years' experience* in Research and Development in Industry or R&D or Academic Institutions or Science & Technology Organizations.</p> <p>(b) Desirable: a) Post Doctorate degree in Physical Sciences or Doctorate Degree in Engineering or Technology from a recognized University or research Institute.</p> <p>b) Experience in conceptualizing and executing R&D projects/programmes.</p> <p>c) Published research work of high standard and/or good record of patents granted/filed.</p> <p>(c) Experience : The candidates should have appropriate R&D application development/translational expertise in any of the following areas as evidenced by peer reviewed publications and patents:</p> <p>(i) Development of Li-ion/Na-ion battery materials and experience in fabrication of electrodes for Li-ion/Na-ion Batteries as well as cylindrical, pouch and prismatic cells and electro-chemical characterization.</p> |

(Scientist "E" – Experience Contd.)

- (ii) Large scale synthesis and characterization of inorganic materials for Photovoltaics, Hydrogen generation, optoelectronic devices and experience in redox flow batteries, Perovskite solar cells and thin film development by PVD and solution processes.
- (iii) Development of nanostructured materials for high temperature applications and experience on high temperature materials, structure-property correlation models and processing and advanced characterization like atom probe tomography and high-resolution transmission electron microscopy.
- (iv) Development of Polymer Electrolyte Membranes (PEM), electrocatalysts for PEM cells, electrolytes for Solid State Li-ion batteries and characterization of energy systems.

(d) Job Requirement: The candidates are expected to work in a team and actively participate in designing and executing different R&D projects for product/process development, including subsequent scale-up of technologies to pilot plant level and demonstration of application potential for eventual transfer to the industry.

02.

Post Code : C 001

Name of the post : SCIENTIST "C"

No. of Posts : One (1)

Pay level : 11

Total emoluments: Rs. 1,36,405/- approximately

Upper Age limit : Not exceeding 35 years

Mode of Recruitment: Direct recruitment

Mode of Selection : Presentation on Electrical projects handled and followed by Personal Interview.

(a) Essential: (i) Bachelor's Degree in Electrical Engineering or Electrical and Electronics Engineering from a recognized University or equivalent.

(ii) Four (4) years' relevant experience* in Industry or R&D or Academic Institutions or Science and Technology organizations or State Electricity Boards.

(b) Desirable: a) Master's degree in Electrical or Electrical & Electronics from a recognized University.

b) Familiarity with electric rate contracts for procurement, Annual Maintenance Contracts, Co-ordination with cross-functional teams and contractors.

c) Knowledge about safety standards, risk assessment procedures and emergency handling protocols.

(c) Experience : The candidates should possess experience in the following areas:

(i) Installation, testing, commissioning, operation & maintenance of Sub-stations, DG sets, solar PV units.

(ii) Knowledge about load management, design of LT power system, integration and handling of EE, DG and solar grids along with net metering, handling of electrical non-linear loads.

(iii) Knowledge about IEC, IS and IEEE codes.

Job Requirement: The candidate is expected to be associated with Electrical and Civil Maintenance Centre of the organisation. Shall be responsible for timely implementation of entire electrical and civil maintenance works of ARCI at Hyderabad and shall also help with electrical works of ARCI Centres located in Chennai and Gurugram, Haryana.

03. **Post Code** : BS 001 (Sciences)
Name of the post : SCIENTIST "B" (R&D)
No. of Posts : Two (2)
Pay level : 10
Total emoluments: Rs. 1,14,945/- approximately
Upper Age limit : Not exceeding 35 years.
Mode of Recruitment: Direct recruitment
Mode of Selection : Will be through Competitive Written Examination (CWE) followed by Personal Interview of the shortlisted candidates based on the marks secured in CWE.
Reservation : Unreserved (UR) = 01; Other Backward Class (OBC-Non-Creamy Layer) = 01

a) Essential : (i) Master's degree in Physical Sciences or Chemical Sciences from a recognized University or Institute.

b) Desirable : (i) Doctorate degree in Physical/Chemical Sciences from a recognized University or Institute.

(ii) One year experience in Research and Development in Industry or R&D or Academic Institutions or Science and Technology Organizations.

c) Job Requirement: The candidates are required to work in any of the ongoing R&D projects in the broad areas of Nano and advanced materials, Energy materials and Systems, Surface Engineering, Ceramics, Powder Metallurgy etc., OR in the field of Materials Characterization.

04. **Post Code** : BE 002 (Engineering)
Name of the post : SCIENTIST "B" (R&D)
No. of Posts : Five (5)
Pay level : 10
Total emoluments: Rs. 1,14,945/- approximately
Upper Age limit : Not exceeding 35 years.
Mode of Recruitment: Direct recruitment
Mode of Selection : Will be through Competitive Written Examination (CWE) followed by Personal Interview of the shortlisted candidates based on the marks secured in CWE.
Reservation : Unreserved (UR) = 03; ST-Scheduled Tribe (ST) = 01 and Economically Weaker Section (EWS) = 01

a) Essential : (i) Bachelor's Degree in Engineering or Technology in any one of the following from a recognized University or Institute:

- (a) Materials Engineering/Materials Science & Engineering/
Metallurgical Engineering/Materials & Metallurgical Engineering
- (b) Mechanical Engineering
- (c) Chemical Engineering

b) Desirable : (i) Master's Degree from a recognized University or Institute in any of the above disciplines.

(ii) One year experience in Research and Development in Industry or R&D or Academic Institutions or Science and Technology Organizations.

c) Job Requirement: The candidates are required to work in any of the ongoing R&D projects in the broad areas of Nano and advanced materials, Energy materials and Systems, Surface Engineering, Ceramics, Powder Metallurgy etc., OR in the field of Materials Characterization.

[The following is for Scientist “E” and Scientist “C” for (a) (ii)]

***For experience please Note:** The Period spent on obtaining minimum essential educational qualifications shall not count towards experience. Only in cases where Master’s degree is the minimum essential educational qualification – Period spent on obtaining doctorate degree (in the field of essential qualification) from a recognized University or institute, as evidenced by certification by such University or institute, subject to completion of the doctorate degree and subject to a maximum of two years shall count towards experience. The period spent on pursuing a doctorate degree shall not count towards experience for any purpose, if the doctorate degree has not been awarded. However, in cases of full-time employment (regular or contractual) of more than two years during the same period as the period spent on obtaining doctorate degree (degree awarded), experience shall be counted only for the employment period and not for the doctorate degree.

For Scientist “E”: Candidates applying for Scientist “E” position shall download **questionnaire form** for **submission of research proposal**. The duly filled-in research proposal (as per format downloaded) shall be submitted alongwith their online application.

For Scientist “E”/Scientist “C” : A **Separate Reference Appraisal** will be sent to the referees given by the candidates’ in their online application.

Application Procedure:

The Interested candidates fulfilling the above eligibility criteria may submit their online application at: <http://www.arci.res.in/careers>.

A. Emoluments:

- (i) Salary will be as per government norms in respective pay level (at the minimum pay level) and gross emoluments include basic pay, DA, HRA and Transport Allowance as applicable.
- (ii) **Other Benefits:** In addition to the above emoluments, benefits such as New Pension Scheme (NPS), Gratuity, Group Insurance, Medical Reimbursement, Children Education Allowance, Leave Travel Concession (LTC) etc., are available and will be extended as per prevailing norms.

B. How to Apply:

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)/Incomplete applications/applications without fees/fee details etc., will not be accepted and will be summarily rejected.**

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

C. Application Processing Fee and Mode of Payment:

A Non-refundable application processing fee (for each post applied) shall be paid as follows through NEFT/RTGS:

- (i) For Scientist "E"/Scientist "C" (for all Categories) : Rs. 1000/- (Rupees one thousand only).
- (ii) For Scientist "B":
General and OBC Category : Rs. 600/- (Rupees six hundred only).
ST/EWS/PwD (Divyangjan)/Women : Rs. 300/- (Rupees three hundred only).

(Reserved Candidates applying against unreserved posts shall pay full fee)

| Bank TRANSFER DETAILS | |
|-----------------------|--|
| Bank Name : | Canara Bank |
| Branch : | Kanchanbagh, Hyderabad -59 |
| A/C in favour: | International Advanced Research Centre for Powder Metallurgy & New Materials |
| Account No. : | 1849106015365 |
| IFSC Code : | CNRB0001849 |

- Note: (i) Please write bank transfer details in the space provided in online application. Without bank transfer details, online applications will be rejected.
- (ii) Online Applications submitted by the candidates will not be considered if NEFT/RTGS amount is not received by us by **28th July, 2025**

D. Selection Process & Examination Model:

- (i) **Preliminary Screening/Short-listing:** A Committee as constituted by the Competent Authority, ARCI will screen the applications, considering the academic performance, relevance of the experience for the post applied and number of years of relevant experience (based on the data provided in on-line applications by the candidates) and such other parameters as deemed necessary for screening/short-listing. The Screened-in/short-listed candidates will be called for Personal Interview/undergo Competitive Written Examination (CWE).
- (ii) **Mode of Selection for**
 - (a) **Selection for the post of Scientist "E":** Shortlisted candidates shall make a crisp presentation for 15-20 minutes. The first half of the presentation shall highlight achievements of the research work carried out by the candidates in the last few years, while the second part should describe the research proposal and how his/her expertise is suited for implementing the proposal.
 - (b) **Selection for the post of Scientist "C":** Shortlisted candidates shall make a crisp presentation for 15-20 minutes. The presentation shall highlight achievements made by the candidates covering the broad spectrum of their work experience as mentioned for the post of Scientist "C".
 - (c) **Selection for the post of Scientist "B".** The details of Competitive Written Examination (CWE) for the screened-in/shortlisted candidates for the post of Scientist "B" are given separately. Candidates short-listed based on relative grading criteria in CWE will be called for personal interview to be held at ARCI, Hyderabad.
 - (d) In addition to the above, any other selection tool/test may be administered, at the sole discretion of the Competent Authority, ARCI.

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|---|--|--|--|--|
| <p align="center">Online Examination Details for Scientist “B” Post Multiple Choice Questions (MCQs) Final Selection will be on the basis of aggregate of: 50% weightage for CWE marks and 50% weightage of Personal Interview marks</p> | | | | |
| <p>Examination Centre: Competitive Written Examination (CWE) , will be conducted in Hyderabad only.</p> | | | | |
| <p>Duration of the Examination: 3 hours/180 minutes</p> | | | | |
| <p>Total Marks for CWE Examination: 300 marks (100 x 3 marks)</p> | | | | |
| <p>Total No. of Questions/Marks per Question : 100 Questions of 3 marks each (Section “A” 90 MCQs and Section “B” 10 MCQs)</p> | | | | |
| <p>Negative Marking: 1 mark will be deducted for each incorrect/wrong answer.</p> | | | | |
| <p>Examination Questions (MCQs) will be in the Major branches of : (i) Physical Sciences/Chemical Sciences (ii) Materials Engineering/Materials Science & Engineering/ Metallurgical Engineering/Materials & Metallurgical Engineering/Mechanical/Chemical Engineering. (As given in the online application, candidates shall select one of the above relevant essential Science/Engineering disciplines/subject/specialization while writing examination).</p> | | | | |
| <p>Section “A”: will contain 90 MCQs of 3 marks each from relevant essential Science/Engineering disciplines/subject/specialization as above-(90 x 3 = 270 Marks).</p> | | | | |
| <p>Section “B”: will contain 10 MCQs of 3 marks each in analytical skills/logical reasoning across all the disciplines (10 x 3 = 30 Marks).</p> | | | | |
| <p align="center">No. of Candidates to be Short-listed for Personal Interview will be in the ratio of 1 post : a minimum of 10 candidates</p> | | | | |
| <p>Merit List: Merit list will be prepared based on the relative grading criteria. Candidates short-listed based on relative grading criteria will be called for personal interview to be held at ARCI, Hyderabad.</p> | | | | |
| <p>Total Marks for Personal Interview: 100 marks</p> | | | | |
| <p>FINAL SELECTION: will be on the basis of Aggregate of 50% weightage of CWE marks and 50% weightage of Personal Interview marks.</p> | | | | |

E. TENTATIVE SCHEDULE FOR PERSONAL INTERVIEWS AND COMPETITIVE WRITTEN EXAMINATION

| Sl. No. | Post | Tentative Date Competitive Written Exam. | Tentative Date For Personal Interview | Location |
|---------|---------------|--|---------------------------------------|-----------|
| 01. | Scientist “E” | Not Applicable | August 2025 | Hyderabad |
| 02. | Scientist “C” | Not Applicable | August 2025 | Hyderabad |
| 03. | Scientist “B” | August | October 2025 | Hyderabad |