For a challenging career in pursuit of front ranking R&D programmes in Atomic Energy

Research Associates selected under the prestigious KSKRA programme are given an opportunity to work on R&D programmes of national importance relevant to the mandate of the Department in one of the following advanced research centres of DAE:

1. Bhabha Atomic Research Centre (BARC), Mumbai
2. Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam
3. Raja Ramanna Centre for Advanced Technology (RRCAT), Indore
4. Variable Energy Cyclotron Centre (VECC), Kolkata
5. Atomic Energy Regulatory Board (AERB), Mumbai

Up to 20 KSKRAs can be selected every year and paid a stipend of Rs 20,000 + benefits for a maximum period of 2 years. Anytime during the 2nd year of associateship, subject to satisfactory performance, the KSKRAs will be absorbed in one of the above R&D units of DAE and appointed in the grade of Scientific Officer/Engineer-D/E. The associateships are available in the following broad disciplines:

<table>
<thead>
<tr>
<th>Engineering subjects</th>
<th>Subject code</th>
<th>Science subjects</th>
<th>Subject code</th>
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<tbody>
<tr>
<td>Chemical Engineering</td>
<td>01</td>
<td>Physical Sciences</td>
<td>08</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>02</td>
<td>Chemical Sciences</td>
<td>09</td>
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<tr>
<td>Electrical Engineering</td>
<td>03</td>
<td>Radiation Sciences</td>
<td>10</td>
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<tr>
<td>Electronics Engineering</td>
<td>04</td>
<td>Environmental Sciences</td>
<td>11</td>
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<td>Mechanical Engineering</td>
<td>05</td>
<td>Life Sciences</td>
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<td>Metallurgical Engineering</td>
<td>06</td>
<td>Medical Sciences</td>
<td>13</td>
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<td>Structural Engineering</td>
<td>07</td>
<td>Agricultural Sciences</td>
<td>14</td>
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<td>Electronics Science</td>
<td>15</td>
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<td></td>
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<td>Materials Science</td>
<td>16</td>
</tr>
</tbody>
</table>

ELIGIBILITY CRITERIA
A) Minimum Educational Qualification and Experience:
   i) For Engineers: Ph.D. degree in Engineering (Those who have submitted thesis for Ph.D. may also apply) or Master’s degree in Engineering (M.Tech./M.E.) with a minimum of 2-year R&D experience after obtaining M.Tech./M.E. degree.
   ii) For Scientists: Ph.D. degree in Science (Those who have submitted Ph.D. thesis may also apply). All candidates must have a First Class at either Masters or Bachelors level.

All candidates must provide a list of publications in support of their R&D experience.

B) Nationality/Age: Indian nationals who are not more than 32 years as on 1st January in the year of the application. The age criterion is relaxable by 5 years for SC/ST candidates and 3 years for OBC candidates. The SC/ST/OBC certificate should be as per the prescribed format.

(Contd)
SELECTION AND APPOINTMENT
Selection will be done by an interview committee (appointed by BRNS) from among the shortlisted candidates based on their qualification, published R&D work and performance in the interview. The selected candidates would be appointed as KSKRA for an initial period of one year, which is extendable by one more year based on performance during the first year. KSKRAs would be paid a monthly stipend of Rs 20,000 + benefits. Those candidates who have submitted their Ph.D. thesis but are yet to receive their Ph.D. degree, if found suitable by the interview committee in view of their expertise and academic record, would be first designated as Research Associate (RA) and paid Rs 16,000 per month and only after completion of their Ph.D. and obtaining a provisional certificate, they would be designated as KSKRA and paid Rs 20,000 per month. For all other benefits, their date of joining as RA will be treated as the date of joining KSKRA Scheme. In addition Rs 10,000 per year will be paid as Educational Material Allowance. Associates will be provided Hostel accommodation, medical and leave benefits during the Associateship.

CAREER DEVELOPMENT
Anytime during second year of Associateship, subject to satisfactory performance as evaluated by the concerned DAE unit, KSKRAs will be appointed as Scientific Officer/Engineer-D in the pay scale of Rs 10,000–325–15,200. Additional increments may be awarded depending upon qualification, experience and performance during the Associateship. Exceptionally brilliant candidates with excellent track record in advanced technologies and having a Ph.D. may be considered for the higher pay scale of Scientific Officer/Engineer-E (Rs 12,000–375–16,500). Total emoluments at the minimum of the pay scale inclusive of Basic Pay, Dearness Pay, Special Increments and other Allowances such as Dearness, City Compensatory, House Rent and Transport (if applicable) in a Class-A1 city as on 1 January 2008 is Rs 28,300 for Scientific Officer/Engineer-D and Rs 33,710 for Scientific Officer/Engineer-E. Pay Scales are likely to be revised upwards after the implementation of the 6th Pay Commission constituted by the Government of India.

The additional benefits for employees and their dependent family members on regular appointment are: Conductive environment for working; Knowledge Update Allowance; Healthcare Scheme and Leave Travel Concession for self and family; Accommodation (subject to availability) with excellent ambience in well developed colony having educational facilities for children up to junior college level and Creche facility for children of working couple.

HOW TO APPLY
a. The application should be preferably typed on a plain paper as per the pro-forma given in the advertisement for only one of the subjects listed above. Multiple applications received would be rejected.
b. Attach only photocopies of the following documents/certificates duly attested by a Gazetted Officer/Head of the Institute (Do not enclose original certificates).
   i. All degree certificates and mark sheets starting with the eligibility qualification (for example Ph.D.) certificate.
   ii. GATE Score, GATE Subject and GATE Exam Year or NET Qualification (optional).
   iii. Proof of date of birth e.g. CBSE/HSC/SSC/Matriculation certificate.
   iv. SC/ST/OBC/DODPKA certificate, if applicable, as per the prescribed format.
c. Enclose 3 envelopes (size 5” × 7”) with complete addresses including PIN code: One envelope for self and one each for the two referees who are familiar with your work.
d. Affix one passport size photograph on the top right corner of the application and enclose one spare photograph inside the envelope indicated at ‘c’ above. Append your signatures across both the photographs.
e. Postal Order/Demand Draft of Rs 100 as application fee drawn in favour of Accounts Officer, BARC payable at Mumbai. SC/ST and Dependents of Defence Personnel Killed in Action (DODPKA) are exempted.
f. Persons working under the Central/State Government/Public Sector Undertakings should submit their application through proper channel.
g. Send application by Registered Post with Acknowledgement Due Card to the Deputy Establishment Officer (R-IV), Bhabha Atomic Research Centre, 4th floor, Central Complex, Trombay, Mumbai 400 085.
h. On the left-hand corner of envelope please clearly mark your Subject Code Number and inscribe KSKRA with application due date.
i. Applications will be received throughout the year. Selection interviews will be held twice every year.
j. The applicants who submit their applications by 1 March will be called for interview in May and those who submit their applications by 1 September will be called for interview in November of the same year.

SELECTION PROCEDURE
Applications will be screened and candidates found suitable will be called to appear for an interview in Mumbai. Preference will be given to those candidates whose research interest and work experience has relevance to the mandate of DAE. Outstation candidates will be paid sleeper class (ordinary) train fare or actual fare, whichever is less. Candidates are advised to come prepared to stay in Mumbai for 2 to 3 days as a few shortlisted candidates will be asked to undergo a medical examination on the day following the interview. Final selection will be made from among the shortlisted candidates found medically fit.

(Contd)
A BRIEF NOTE ON BOARD OF RESEARCH IN NUCLEAR SCIENCES

Board of Research in Nuclear Sciences (BRNS) is an advisory body to recommend financial assistance to universities/institutions/laboratories with the objective to encourage and promote scientific research in areas of relevance to the mandate of the Department of Atomic Energy (DAE). BRNS plays a vital role in strengthening collaboration with educational institutions/universities to meet the scientific and the technological needs of the Department. Main mandate of DAE is the production of safe and economical nuclear power, using indigenous uranium and thorium resources. Towards this end, it is involved in developing, in stages, pressurized heavy water reactors, fast breeder reactors, and advanced thorium reactors with associated fuel cycle systems. It builds research reactors for production of radioisotopes and carries out programmes on isotope and radiation technology applications in medicine and agriculture and industry. It develops advanced technology in areas like accelerators, lasers, control and instrumentation, computers, biotechnology, information technology, materials technology, etc., and also encourages technology transfers to other users and industry. It supports basic research in nuclear energy and related frontier areas of science.

APPLICATION PROFORMA AND ANNEXES

1. Subject & Subject Code Number
2. Full name in capital letters (underline the portion of the name candidate is generally known by)
3. Postal address including Phone No., Fax No. and E-mail (addresses should be written very clearly and legibly)
4. Date of birth (DD-MM-YYYY)
5. Category: General/SC/ST/OBC (SC/ST/OBC to attach a copy of the relevant certificate)
6. a. Gender: Male/Female
   b. Marital Status
   c. Nationality
   d. Religion
7. a. Whether applied earlier for KSKRA and called for interview
   b. If 'Yes', give Year & Month of your interview
8. Name and address of two referees who are familiar with the work done by the candidate
9. DD No., name and branch of the bank/Postal Order No.
10. List of documents attached. Please also attach Annexes 1, 2, 3 & 4 as indicated below
11. Declaration: I hereby declare that all the statements made in the application are true to the best of my knowledge and belief and I am also aware that my application is liable to be rejected, if the information given above is incomplete or found to be incorrect.

Date: 
Place: 
Signature of the Candidate

Please provide information on one page each for the following four annexes:

Annex-1: Educational Qualifications: give details beginning with the latest degree in a table format with the following columns: Branch of specialization; Name of Institute/University/Board; Year of passing; % Marks obtained; Subjects taken. Also give details about GATE Score, GATE Subject and GATE Exam Year or NET Qualification (optional). Note: Those who have submitted thesis and but have not been awarded Ph.D. shall give Date of Submission of Ph.D. thesis duly supported with documentary proof from the Registrar/Controller of Examination of the University/Institute.

Annex-2: Field of Research: give title of thesis, specific area of discipline, 5-key words that describe your work and a brief description of the research work done for Ph.D. (max. 500 words) or for the project work done for Masters in Engineering (max. 250 words) and the R&D work done after Masters (max. 250 words). For candidates who have not done project work during masters, only work experience details may be given.

Annex-3: List of Research Publications: give publication details on single sheet in the following format: Title, Authors, Name of the journal/conference proceedings, Volume, Page Nos. Enclose up to five selected reprints.

Annex-4: Current Assignment: give details about your current assignment and nature of work being carried out by you.

Note: Please retain a ‘photocopy’ of your application with Annexes 1 to 4. Later on you may be required to submit additional copies of your application (but without enclosures such as certificates/reprints).

Next due date for receipt of applications: 1 September 2008

For latest information visit BARC website: [http://www.barc.ernet.in/webpages/brns/brns_fellowship.html](http://www.barc.ernet.in/webpages/brns/brns_fellowship.html)