



Tel: 91-11-23736212, 23316742
PABX : 23470 218, 23470274
Fax: 91-11-23316764, 23739041, 23710618, 23714788

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH
Anusandhan Bhavan 2, Rafi Marg, New Delhi - 110 001.

The Head,
International S & T Affairs Directorate
(ISTAD), CSIR HQ

No : 22/RRF/2019 - ISTAD
Date : 22.11.2018

To

The Directors/Heads of Institutes / Units / Directorates of CSIR

Subject: Raman Research Fellowships for the year 2019-2020

Sir / Madam,

Applications are invited from CSIR institutes for the award of **Raman Research Fellowships for the year 2019-2020**. The Raman Research Fellowships are granted to the CSIR researchers for carrying out research in the emerging / high priority technology areas. It is tenable at foreign institutions / R&D Centres of Excellence. The entire cost is met by CSIR HQs.

The application proforma is given at **Annexure-I**. The details regarding eligibility, terms & conditions etc. may be seen at **Annexure-II**. Applications of **upto two** eligible meritorious candidates may be forwarded to ISTAD, CSIR after thorough careful evaluation. All applications will be returned to the concerned Institute if the number of nominations exceeds two.

The candidates are required to submit **6 (six) copies** of their application form. In addition, an electronic copy of the nomination summary as per **Annexure-III** may be sent to the undersigned (kamlesh@csir.res.in).

The nominated candidates are expected not only to be meritorious but also be fully aware of the national agenda in Science and CSIR's Vision. They are expected to possess general awareness about our country, its culture, history and present day socio-economic and geo-political issues.

The selection will be made through a mechanism of interview by the duly constituted Selection Committee. The interviews will be held in **CSIR HQs., New Delhi sometimes between March - June 2019**. The exact date and time of the interview will be intimated to all the eligible candidates about one month in advance.

The last date for receipt of the duly filled in applications, complete in all respects is **January 18, 2019**. Applications received after the last date will be summarily rejected.

The candidates are advised not to correspond directly but may feel free to make enquiries through ISTAG of their respective institutes / Units / Directorates.

Yours faithfully,

(Kamlesh Rani)

Sr. Technical Officer

Encl : As above (can also be downloaded from Website : www.csir.res.in)

- Copy to:
1. PS to DG/JS (A), FA, CVO, CSIR HQs for information.
 2. Head (RPPBDD), Head (MD), Head (HRD), Head (IPD)
 3. US (CO), CSIR HQs.,
 4. Head (IT) with a request for wide circulation through digital notification and uploading on the CSIR website
 5. Office copy

Raman Research Fellowship Application form for FY 2019-2020

(please type this information without exceeding the space limit)

| | | | |
|----|---|-----|-----------------------|
| 1. | Name | | |
| 2. | Designation | | |
| 3. | Lab / Instt | | |
| 4. | Area of research | | |
| 5. | Date of Birth and Age (Age not exceeding 45 yrs. as on April 1, 2019) | DoB | Age : Y_____M_____ |
| 6. | Date of joining CSIR with Designation | | |

7. Qualifications

| Degree | Board / Univ | Division | Subjects | Year |
|--------|--------------|----------|----------|------|
| | | | | |
| | | | | |
| | | | | |
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| | | | | |

8 Whether belonging to
SC/ ST/OBC

| | | |
|----------|----------|--------------|
| SC _____ | ST _____ | Others _____ |
|----------|----------|--------------|

9. Knowledge of foreign languages

| Language | Can Speak | Can Read | Can Write |
|----------|-----------|----------|-----------|
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|---|--|--|--|--|--|--|--|--|--|--|--|--|
| B. Skill Development <ul style="list-style-type: none"> • Areas covered • No. of people | | | | | | | | | | | | |
| C. Socio-economic Interventions <ul style="list-style-type: none"> • No. of technologies deployed • Extension activities | | | | | | | | | | | | |

| | | |
|-----|--|--|
| 15. | Major achievements/contribution of international level in the proposed area of research. | |
| 16. | Name of the host Professor / Guide and full address of the Foreign Instt / Univ / R&D lab. (enclose the acceptance letter of host institute). | |
| 17. | Research accomplishments of the host. | |
| 18. | Major research facilities at the host laboratory / institute | |
| 19. | Prior linkages / cooperation with the host | |
| 20. | Reasons for selecting the proposed host. | |
| 21. | Title of the research proposal to be carried out abroad. | |
| 22. | Detailed description of the research work to be carried out abroad. <p style="text-align: center;">(Please enclose this in a separate sheet)</p> | |
| 23. | Please give one page write-up on the novelty of the research topic. | |
| 24. | Linkage of the proposed work with FTT / Mission mode projects / NIMITLI projects / major programmes of Institute | |

| | | |
|-----|--|--|
| 25. | Does the proposed research work involve IPR issues. If yes, has the host institute agreed to share the same with CSIR? (Please follow CSIR guidelines at Annexure IV for discussing the issue with the host institute) | |
| 26. | Could the proposed work be carried out within India at CSIR/non CSIR S&T institutions? Justification for need to conduct it in the proposed foreign institution. (please enclose separate sheet, if necessary) | |
| 27. | Minimum period required for conducting proposed research. (2 – 6 months) | |
| 28. | Relevance of proposed research with the activities / programmes of Lab/CSIR. | |
| 29. | Nature of expected output from the proposed study and its likely uses. | |
| 30. | What benefits will accrue to CSIR by conducting this research work. | |
| 31. | Commercialisation prospects of the proposed research work. | |
| 32. | Previous visits abroad during last 3 years. | |
| 33. | Any other relevant information You may feel necessary to give. | |

Signature of the Candidate

Date:

Place:

31. Recommendations of the Director of the Lab/Instt:

- (a) Comments of the Director on the information given above by the applicant.
- (b) Remarks of the Director on the potential and credentials of the applicant.
- (c) Field of proposed study and its relation to the Lab's priorities, particularly with regard to the FTT / Mission mode projects / NIMITLI projects / major programmes of Institute.
- (d) Remarks on chosen place of work, special features of the concerned Lab.
- (e) Scientific and economic implication of the proposed work during the Fellowship (both on Indian as well as global scene). Nature of expected output from the proposed study.
 - strategic information
 - new technique, process, technology, products with patent
 - novel knowledge / publications
- (f) Commercialisation prospect and likely users of the proposed research in the industrial sectors.
- (g) List of scientific peers, who can appreciate and comment on the scientific approach and overall utility of the proposed work.

Signature of the Director with Stamp and Date.

Salient Features of Raman Research Fellowship (RRF)

1. Objective The Fellowship is granted to the CSIR Scientists for carrying out research in the emerging/high priority areas in reputed foreign institutions/R&D Centres of Excellence to enhance their R&D skills/capability. The Fellowship is tenable abroad at CSIR cost.
2. Eligibility Regular Scientists of CSIR with high academic qualifications (Post graduate in Engineering and PhD in Natural Science) and research experience, presently working in high priority areas, (FTT / Mission mode projects / NIMITLI projects / major programmes of Institute) who have completed minimum 5 years of service in CSIR on the last date for receipt of the applications. The applicant must have made commendable contribution to research / innovation in the proposed area, which should be of international level. **Fellowship should not be sought for training or to carry out tests, etc. using facilities in the host institute.** The RRF must be sought to further enhance the skills/capability and fill in technological gaps. The candidate should not be more than 45 year of age as on January 18, 2019.
3. Fellowship tenure Two to Six Months (in one spell only)
4. Area Applied research topics in the high priority technology areas of the Laboratory/CSIR and also any specific area under Basic Science of relevance and immediate importance.
5. Terms During the Fellowship period the Scientist will be called "**Raman Research Fellow**". The Fellow will be sent abroad on deputation terms.
6. Financial Terms
 - International air fare to & fro by cheapest Economy class
 - Fellowship @ US \$ 2500/- per month
 - US\$1000/- lump sum towards contingency and preparatory expenses
 - US\$1000/- Supplementary grant for participation in Conferences/visiting institutions of excellence in country of placement
7. Mode of Selection Through interview by a duly constituted Selection Committee to be constituted by the DG CSIR. The candidate must furnish at the time of interview, letter of acceptance from the host-institution duly approved by the Director of the Institutes indicating the specific study work to be carried out abroad. The candidate can make Power point presentation (upto 5 slides) for 7 minutes, first four minutes for the present research activities and remaining 3 minutes for the proposed research work.
8. Bond The selected candidates shall execute a bond before proceeding abroad on Fellowship to serve the concerned Lab/Instt. for three years on his/her return.

Terms and conditions governing "RAMAN RESEARCH FELLOWSHIP"

1. The individual availing this Fellowship would be called 'Raman Research Fellow'.
2. The Fellowship will be for a period of **2 to 6** months on deputation terms. It is awarded for **research and training** in the specific areas of priority identified by the CSIR (FTT / Mission mode projects / NIMITLI projects / major programmes of Institute). The Fellow should not deviate his research topic during the tenure of the fellowship from the proposed subject of work and also should not change the place of work without prior written approval of CSIR.
3. Extension of fellowship beyond the period mentioned in para 2 above shall not be generally considered unless there are exceptional circumstances justifying such extension which could not be visualized at the time of submitting the final plan of work. Such a request should be received in CSIR from the Fellow through his/her guide and Director, at least one month before expiry of the sanctioned period, indicating specific recommendation of his/her host institute and the Director of the Laboratory and confirming that the fellow has been submitting the quarterly Progress Report regularly on schedule.
4. Rules governing payment of salary, leave, medical, gratuity, GPF, Pension, etc. of the Laboratory/Institute to which the Fellow belongs, would continue to be applicable during the fellowship period and shall be the liability of the Lab./Institute concerned.
5. He/She will be entitled to air passage in cheapest economy class both ways by Air-India only from his/her present place of duty to the place of training by the direct route. No other air-lines can be used for this purpose except in sectors where Air-India does not operate. In sectors where Air-India does not operate, air passage should be got booked through Air-India, and will be limited to Air India fares.
6. The fellow will be entitled to fellowship in foreign exchange equivalent to US\$ 2500/- (US dollars Two thousand and five hundred only) per month in the country of study in the appropriate currency depending on the place of the training, subject to RBI regulations. In addition to this he/she will be provided a supplementary grant of US\$1000/- for participation in Conferences/visiting institutions of excellence in country of placement. He/She will also be entitled to US\$1000/- as lump sum contingency to cover expenses which may be directly related to his/her work. It will also cover the commission charged by the authorised Banks on the transfer of the foreign exchange to the Fellow's account in foreign country, visa fee, etc.
7. The Fellow would be required to get his medical insurance done from an appropriate Indian Insurance Company before proceeding abroad. The expenditure on the medical insurance will be borne by the Fellow out of the Contingency amount granted.
8. The Institution in which the fellow will work do not generally charge any fee. The Director of the Institute presumably must have ensured that no fee is payable in this case.
9. The Fellow is expected to take appropriate measures to protect the IPR likely to be generated during his/her stay at the host-institution.
10. The Fellow shall be required to execute a bond before proceeding on Fellowship to serve the concerned institute for **Three years** on return from fellowship.
11. If the Fellow does not return to India or gets job opportunities overseas on completion of the fellowship, the Institute will recover the entire expenditure from the fellow and remit it to the CSIR. In addition, the matter shall be taken up with host Institution and concerned Government through Indian mission abroad for suitable/legal action as deemed fit.

12. The Fellow will devote his/her whole time on his/her chosen area of specialization during the tenure of his/her fellowship, and will not seek gainful employment elsewhere without the prior permission of CSIR.
13. The Fellow shall submit a quarterly Progress Report on his/her research activities overseas during the fellowship abroad within 15 days on expiry of each quarter and a detailed Final Report on his/her return from abroad within a fortnight. The quarterly Progress Report or on the Final Report, as the case may be, will be forwarded to CSIR immediately alongwith 'Critical Appraisal' of the same by the Director of the Institute.
14. The institute shall also send alongwith the Final Report, a statement of expenditure, duly certified by the F&AO of the laboratory indicating inter-alia, the name of the fellow, position held in Instt., period of fellowship, name of foreign Institute where fellowship was availed, Title of research, details of travel expenses to & fro, Fellowship and Contingency expenses (in foreign currency as well as Indian Rupees), salary paid in India and any other payment made to him/her.
15. The fellowship should commence within the same financial year in which it is awarded i.e. April 1, 2019 to March 31, 2020

Raman Research Fellowships (RRF) for 2019-2020

| Area | Research Topic | Name and Designation | Institute | Age (Yrs) as on January 18, 2019 | Qualification & Res. Experience | Min. Period Required (2-6 months) | Remarks |
|------|----------------|----------------------|-----------|----------------------------------|---|-----------------------------------|--|
| | | | | | Degree (Highest): Institute/ Univ.: Subject: Year: No. of year of Res. Experience (including Ph.D. period): | | <ul style="list-style-type: none"> • Invitation enclosed from ---; • Prestigious Awards/ recognitions: • Publications in peer reviewed Journals: National ---; International---; • Proceeding: National --- ; International---; • Presentation: National---; International---; • Patent: National --- ; International---; • Last three years' foreign visits: |

CSIR's IP Policy in regard to Raman Research Fellowship

1. Those intending to apply for Raman Research Fellowship, need to apprise the host institution about CSIR's IP policy in regard to disclosure, protection and sharing of research results arising from R & D work done at the host institution.

2. **Expectations from the Host Institution:**

The host institution may support the Raman Research Fellow to publish and file application for patents for the research results arising from the R & D work done at the host institution.

3. **IP ownership:**

- a) R & D work carried out under the Raman Research Fellowship involves use of significant resources of CSIR and of partner institution by the researcher. In view of the collaborative support in the form of funding and use of resources as extended to Raman Research Fellowship, the ownership of IP shall normally vest jointly with both the institutions, and in case the ownership vests with the inventors, the rights are assigned to both the institutions.
- b) In case, the host institution is not willing to file any patent application for the research work done at their institution, CSIR should be permitted to protect such inventions in any territory at its cost, if it desires to do so.
- c) In case, the host institution files the patent application under this Scheme, it should do so jointly in the name of CSIR and the host institution. The cost of filing should be borne by the host institution for filing the patent application in their country and by CSIR in India.
- d) In those situations also, where a researcher carries a material to the host institution with the due approval of CSIR, or there is a situation where proposed research work at the host institution is the extension of the work already done in the parent/host organization, the IP rights must vest jointly in the host as well as parent institution on the work carried out jointly.
- e) At any time, if one of the collaborating institutions is not interested in filing, prosecuting or maintaining the patent application in third countries, the entire right shall be assigned to the other institution, if it so desires, without claiming any benefits.
- f) Normally, both the institutions shall have royalty free exclusive rights to further develop, sub-license and exploit the protected invention in their own countries.
- g) Any ownership issue not covered above may be decided based on mutually agreed terms

4. **Patent filing in Third Countries:**

If any patent application is to be filed through a PCT route or directly in other foreign countries or through national phase filings, other than the corresponding patent application filed under the Raman Research Fellowship Scheme in the host country and in India, the expenditure may be borne equally by both the institutions.

5. **MTA:**

Necessary Material Transfer Agreements (MTA) must be signed between the host and parent institutions before a material is taken to or brought from the host institution and necessary requirements under the provisions of the IP Act of the respective countries, if any, must be fulfilled.

6. Secrecy:

In any event, the Raman Research Fellow shall have all the rights to disclose the research results to the parent institution. However, the Raman Research Fellow shall maintain the required secrecy as per the requirement of IP protection.

7. Licensing of IP:

- a) Licensing of IP and sharing of benefits may be decided based on mutually acceptable terms and conditions between the collaborating institutions.
- b) Any royalty proceeds available to the inventor should go to CSIR directly to be distributed as per CSIR guidelines for Technology transfer and Utilization of knowledgebase
- c) In certain cases, where Raman Research Fellow is permitted by CSIR to assign his/her IP rights to the host institution, such assignment shall be subject to the condition that in case it is so desired, CSIR shall have an exclusive royalty free license to practice, sub-license and benefit from the invention in India and non-protected territories.

8. Exceptions:

For certain cases, which may not fall under the above guidelines, necessary approval of the Director General may be obtained through Head, Intellectual Property Management Division, CSIR, after stating the conditions warranting such exceptions.

9. Open Access:

In case, the inventors or the institutions collectively decide to put the research work for free access in the public domain, they may do so after obtaining the necessary approval of both the institutions.

10. Acknowledgements:

The researchers should acknowledge the use of resources of both the host and parent institution in the patent applications, publications and other related documents.