



सरदार स्वर्ण सिंह राष्ट्रीय जैव ऊर्जा संस्थान

(नवीन और नवीकरणीय ऊर्जा मंत्रालय, भारत सरकार का एक स्वायत्त संस्थान)

12 कि.मी. स्टोन, जालंधर-कपूरथला रोड, वडाला कलां, कपूरथला (पंजाब) 144603

फोन: 01822-507406, ईमेल: sss.nibe@nibe.res.in, वेबसाइट: <https://nibe.res.in>



Sardar Swaran Singh National Institute of Bio-Energy

(An Autonomous Institute of Ministry of New and Renewable Energy, Government of India)

12 K.M. Stone, Jalandhar-Kapurthala Road, Wadala Kalan, Kapurthala (Punjab) 144603

Phone: 01822-507406, email: sss.nibe@nibe.res.in, Website: <https://nibe.res.in>



Rolling Advertisement for F.Y. 2025-26 for recruitment of Junior Research Fellow/Senior Research Fellow at Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala

Applications are invited from eligible candidates for Junior Research Fellow (JRF)/ Senior Research Fellow (SRF) in the field of Bio-Energy under "SSS-NIBE Bio-Energy Promotion Fellowship" at Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala. The research positions for JRF are purely on contractual basis. Screening of applications forms will be processed twice a year i.e. on 30.06.2025 and 31.12.2025, based on requirement and availability of seats.

Particulars of Academic Qualifications, Research experience and other requirements of the contractual post are given below:

| Sl. | Contractual Post | Fellowship Honorarium | Qualification / Eligibility | Age limit |
|-----|------------------------------|--|--|--|
| 1. | Junior Research Fellow (JRF) | Rs. 37000/- per month + (admissible HRA or Hostel facility if available) as per rule | Candidate must either have 60% marks or equivalent CGPA in B.E./ B. Tech. (Degree in Chemical Engineering, Mechanical Engineering, Agricultural Engineering, Civil Engineering, Bio-Chemical Engineering, Energy Engineering, Environmental and allied engineering subjects or must have 60% marks in M.Sc. (Chemistry, Biochemistry, Biotechnology, Microbiology and allied science subjects) and GATE / NET qualification as applicable. | The maximum/ upper age limit shall be 28 years, which is relaxed upto 5 years in the case of candidates belonging to Schedule Castes / Schedule Tribes, Physically Handicapped and OBC (NCL) applicants as per Govt. of India rules & regulations. |

| | | | | |
|----|------------------------------|--|---|--|
| 2. | Senior Research Fellow (SRF) | Rs. 42000/- per month + (admissible HRA or Hostel facility if available) as per rule | ME, M.Tech., or equivalent degree in Engineering/Technology (Chemical Engineering, Mechanical Engineering, Agricultural Engineering, Civil Engineering, Bio-Chemical Engineering, Bioenergy Engineering, Energy Science & Engg., Environmental Engg.etc.) With minimum 60% marks or M.Sc.,BE,B.Tech, with minimum 60% marks and at least two years of post M.Sc, BE. B Tech, research experience as evidence from Fellowship/associateship and evidence of published papers in standard refereed journal/patents from reputed R & D or academic institution. | The upper age limit for SRF shall be 32 years, which may be relaxed upto 5 years in the case of candidates belonging to Schedule Castes / Schedule Tribes, Physically Handicapped and OBC (NCL) applicants as per Govt. of India rules & regulations |
|----|------------------------------|--|---|--|

Eligible candidates can download the Advertisement, Application Form and Instructions from website <https://nibe.res.in/>. The candidate should fill the downloaded Application Form as per the instructions. Interview of screened candidates will be conducted both online and physically, but no TA/DA will be admissible for attending the interview. Those appeared in final examination for qualifying degree as required for the post may also apply for the post of JRF. There is a possibility for selected candidate(s) to be considered for the Ph. D. program with Indian Institute of Technology Roorkee as per their admission guidelines. The research work shall be carried out at SSS-NIBE, Kapurthala and Ph. D degree shall be awarded by IIT, Roorkee.

The candidate must sent duly signed filled-in application form along-with all necessary self-attested documents through speed/registered post or on email (in single PDF file) with the subject mentioning "**APPLICATION FOR JRF/SRF**" at the top of the envelop/ as subject-line in email to the following address and / or email ID:

**The Director General, Sardar Swaran Singh National Institute of Bio-Energy,
12 K.M. Stone, Jalandhar - Kapurthala Road, Wadala Kalan, Kapurthala
(Punjab) – 144603.**

Email ID: sss.nibe@nibe.res.in

For any query please contact at +1822-507407 or email at sss.nibe@nibe.res.in

Director General

Rolling Advertisement for recruitment of JRF/ SRF at SSS-NIBE For F. Y. **2025- 26**

Applications are invited from eligible candidates for Junior Research Fellow (JRF)/Senior Research Fellow(SRF) under “**SSS- NIBE Bio-Energy Promotion Fellowship**” by the Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala. Interested candidates should send their duly filled Application form (as per the Instructions) via Speed/Registered Post or e-mail to sss.nibe@nibe.res.in with the subject “**Application for JRF/SRF**” for candidates applying for JRF/SRF, along with the self-attested scanned copy of documents in single PDF file.

1. Introduction

Sardar Swaran Singh National Institute of Bio-Energy (SSS-NIBE), an autonomous Institute of the Ministry of New and Renewable Energy initiated “**SSS-NIBE Bio-Energy Promotion Fellowship**” to promote research activities in Bio-Energy and to attract competent researchers in this field under JRF/SRF/PDF programme. The broad spectrum of Bio-Energy covers (a) Biomass resource assessment: Data analytics & Artificial Intelligence, supply chain management, LCA, techno economics, social impacts (b) Gasification of biomass and MSW to hydrogen, syngas to hydrogen (c) Pyrolysis and HTL of lignocellulosic and Algal Biomass (d) Lignin Valorisation and Biomass conversion to value added chemicals (e) Biochar/Activated carbons from biomass and Activated carbon to graphene – biomaterial for fuel cell, Supercapacitor (f) Biomass, pellets, briquettes, torrefied pellets, charcoal etc. (g) Fuel cell, Bio-hydrogen for fuel cells, materials from biomass (h) Biomass Cookstoves.

2. General

SSS-NIBE under Bio-Energy Promotion Fellowship scheme provide Research Fellowships to bright and enthusiastic young men and women for research under the expert guidance of scientists working at SSS-NIBE in the various fields of Bio- Energy.

The SSS-NIBE Bio-Energy Promotion Fellowships are tenable in India. Only bonafide Indian citizens, residing in India are eligible for the award of research Fellowship. The programme is aimed at National Human Resource Development in the area of Bio-Energy.

The award of SSS-NIBE Bio-Energy Promotion Fellowship is temporary for a

fixed tenure and does not imply any assurance or guarantee for subsequent employment by SSS-NIBE to the beneficiary. The authority to award / terminate Fellowship and relax any of the conditions vests with the Director General, SSS-NIBE. The awardees shall not lay claim to permanent absorption in SSS-NIBE, after the expiry of Fellowship.

The selection rules, amount of fellowship, etc. will be governed as per **SSS-NIBE Bio- Energy Promotion Fellowship** guidelines as amended from time to time.

Subject of Research: Preference is given to a subject / topic of research relevant to the research programmes of SSS-NIBE and importance in Bio-Energy areas like (a) Biomass resource assessment: Data analytics & Artificial Intelligence, supply chain management, LCA, techno economics, social impacts (b) Gasification of biomass and MSW to hydrogen, syngas to hydrogen (c) Pyrolysis and HTL of lignocellulosic and Algal Biomass (d) Lignin Valorisation and Biomass conversion to value added chemicals (e) Biochar/Activated carbons from biomass and Activated carbon to graphene – biomaterial for fuel cell, Supercapacitor (f) Biomass, pellets, briquettes, torrefied pellets, charcoal etc. (g) Fuel cell, Bio-hydrogen for fuel cells, materials from biomass (h) Biomass Cookstoves, etc.

3. Junior Research Fellowship (JRF) under SSS-NIBE Bio-Energy Promotion Fellowship.

Essential Qualifications: Candidates must either have 60% marks or equivalent CGPA in B.E./ B. Tech. (Degree in Chem. Engg., Mech. Engg., Agri. Engg., Civil Engg., Biochem. Engg., Energy Engg., Environmental and allied engineering subjects or must have 60% marks in M.Sc. (Chemistry, Biochemistry, Biotechnology, microbiology and allied science subjects) and GATE/NET qualification as applicable.

Age Limit: The upper age limit for JRF shall be 28 years as on last date of application (30.06.2025 and 31.12.2025), which is relaxed up to 5 years in the case of candidates belonging to Schedule Castes/Schedule Tribes, Physically Handicapped and OBC (NCL) applicants as per Govt. of India rules & regulations.

Tenure: JRF will be tenable initially for a period of two years. The term is extendable for one more year on the basis of assessment of the progress made through publication and if not awarded the SRF. The combined tenure of JRF & SRF will not exceed more than five years in any case. On completion of two years as JRF and if the fellow is

registered for Ph. D., the fellowship will be upgraded to SRF and stipend will be increased for the 3rd and subsequent years on the basis of assessment through interview by a review committee consisting of scientists concerned, Head of Division and Expert member in the relevant field. Extension of tenure will be purely on the basis of progress report and recommendation of the review committee.

4. Stipend / Fellowship Amount for Junior Research Fellows (JRF):

| Sl. No. | Designation | Emoluments for first 2 years |
|---------|------------------------------|--|
| 1. | Junior Research Fellow (JRF) | INR 37,000 per Month+(HRA as admissible or Hostel facility if available) |

Note: *The stipend of research fellow/associate is exempt from the payment of income tax under 10(16) of IT Act, 1961. (Emoluments are on the basis of guidelines defined by DST O.M No DST/PCP/Z-06/2022 dated 26.06.2023 based on approval of MoF vide DoE O.M. No. 33(14)/PFC-II/2018 dated 21.06.2023).*

5. Senior Research Fellowship (SRF) under SSS-NIBE Bio-Energy Promotion Fellowship.

Essential Qualifications: ME,M.Tech or equivalent degree in Engineering/Technology (Chem. Engg.,Mech. Engg.,Agril. Engg.,Civil Engg.,Biochen. Engg., Bioenergy Engg., Energy Science & Engg., Environmental Engg.,etc.) with minimum 60% marks or M.Sc., BE, B.Tech. with minimum 60% marks and at least two years of post M.Sc., BE., B.Tech, research experience as evidence from fellowship/associateship and evidence of published papers in standard refereed journals/patents from reputed R & D or academic institution.

Age Limit: The upper age limit for SRF shall be 32 years, which may be relaxed upto 5 years in case of candidates belonging to Schedule Castes/ Schedule Tribes, Physically Handicapped and OBC(NCL) applicants as per Govt. of India rules & regulations.

Tenure: SRF will be given for a period of three years. The term is extendable by one year on the basis of assessment of the progress made through publications. The combined tenure of JRF and SRF will not exceed five years. Extension of the tenure will be on receiving the recommendation of the three member Expert Committee Consisting of scientist concerned, Head of the Division and external expert in the relevant field. The extension of the tenure will be purely on the basis of progress report and recommendations of review committee. SRF will be terminated from date of Ph.D viva-voce or completion of tenure, whichever is earlier.

6. Service Conditions:

Selection: Selection of the fellows would be strictly based on merit and through open advertisement. Both online and hardcopy application will be considered and reviewed from time to time as per requirement of the Institute. A committee under the Chairmanship of Director General, SSS-NIBE having subject expert will assess the applicants through personal interview. Successful applicants will be communicated as per procedure. NO TA / DA will be paid for attending for interview.

Tenure: The performance of the fellow will be reviewed through an appropriate review committee (three members) constituted by the Director General of the Institution before extending the tenure in terms of fellowship tenure. Research Fellow to submit annual progress report to Guide/Project Incharge/Scientist.

DA & CCA: JRFs/SRFs/PDFs/RAs will not be entitled to these allowances.

House Rent Allowance (HRA): All research fellows may be provided hostel accommodation wherever available and those residing in accommodation provided by the Institute will not be eligible for drawing HRA. Wherever provision of hostel accommodation is not possible, HRA may be allowed as per Central Government norms applicable for Kapurthala. The fellowship amount may be taken as basic for calculating the HRA.

Leave and other entitlement benefits: The fellows are eligible for Leave with stipend not exceeding 30 days for each completed calendar year. The leave will be treated as part of the Fellow's tenure. During the first year of Fellowship or any uncompleted year, leave may be granted on pro-rata basis. In case Fellow proceeds on leave before termination of Fellowship, he/she must join back before the expiry of tenure; failing which the tenure will be deemed to have terminated with effect from the date he/she proceeded on leave. The fact of joining back from leave should be communicated to SSS-NIBE immediately. Participation of JRFs in any scientific event/workshops in India or abroad will be treated as "on duty" and subject to prior approval of competent authority well in advance. The travel entitlement for Fellows for participation in scientific events/ workshops in India will be 2nd AC by rail. Maternity leaves as per Govt. of India instructions issued from time to time would be available to female candidates.

Bonus & Leave Travel Concession: JRFs/SRFs/PDFs/RAs will not be entitled to these allowances.

Retirement Benefits: JRFs/SRFs/PDFs/RAs will not be entitled to these benefits.

Publication/Patent: The results of JRFs/SRFs/PDFs/RAs research work may be published in standard refereed journals at the discretion of the Fellow or his Guide with

prior approval of the Institute. It should be ensured by the fellow that the assistance provided by the Funding Agency / Institution of Government of India is acknowledged in all such publications and one copy of the published research papers should be sent to SSS-NIBE.

General Conditions - SSS-NIBE Bio-Energy Promotion Fellowship.

- This is a rolling advertisement. There is no last date and applications will be processed periodically i.e twice a year.
- Recruitment would be based on the need in a given areas of specializations within the Institute. The areas/specializations in which candidates will be recruited will be updated periodically in line with the Institute's requirements. During this rolling advertisement, if sufficient Fellows are recruited in any particular area, further recruitment in the same area/department may not be conducted.
- SSS-NIBE Bio-Energy Promotion Fellowships are tenable in India. Only bonafide Indian citizens, residing in India are eligible for the award of research fellowship.
- The applications received will be screened by a committee for short listing the candidates for interview periodically. The eligible applicants would be interviewed by a duly constituted committee. The committee would recommend the candidates, if found suitable, for consideration of the competent authority for engagement on Fellowship/Stipendiary basis.
- Detailed information about the research areas of Faculty Members in the above disciplines can be obtained from the Institute website at www.nibe.res.in. The applicants are strongly encouraged to go through profiles of Faculty Members and to get familiar with their specialization and research interest.
- This is a rolling advertisement will remain active throughout the year, however, applications will be processed at least twice a year. Crucial date of screening of application form for the First Round and Second Round is 30.06.2025 and 31.12.2025 respectively of rolling advertisement.
- The award of SSS-NIBE Bio-Energy Promotion Fellowship is temporary for a fixed tenure and does not imply any assurance or guarantee for subsequent employment by SSS-NIBE to the beneficiaries. The awardees shall not lay claim to the permanent absorption in SSS-NIBE after the expiry of fellowship.
- The selection rules, amount of fellowship, etc. will be governed by service condition rules of JRF/SRF/PDF of SSS-NIBE Bio-Energy Promotion Fellowship guidelines.
- The authority to award/terminate fellowship and relax any of the conditions vests with the Director General, SSS-NIBE.

- Selected Fellow has to be a full-time researcher and submit himself/herself to the disciplinary regulations of the Institute.
- Fellow shall be governed by the disciplinary regulations of the institute.
- Fellows must submit a detailed annual report as per prescribed format.
- Fellows must send a detailed consolidated report of the research work done during the entire period of fellowship on completion of the tenure/resignation of the fellowship as per prescribed format.
- In case fellow decided to appear for competitive examination, he/she would invariably seek permission from the guide and competent authority.
- Fellow is not to take any assignment other than related to his/her approved research programme, paid or unpaid. However, if required, the fellow may be asked to assist the institute in other activities as assigned by the competent authority. However, it should be ensured that these assignments should not hamper the progress of research work of the fellow.
- No fellow shall discontinue his/her fellowship without prior approval of Director General, SSS-NIBE. In case he/she wishes to discontinue the fellowship prior to completion of the tenure on attainment of original objectives of research, he/she must submit the resignation to Director General, SSS-NIBE through the guide one month in advance indicating specific reasons for not continuing the fellowship.
- The research fellow shall keep inform Director General, SSS-NIBE about his/her getting the higher degree if any, submission/acceptance/ publication of any research paper arising out of the research work done during the tenure of the fellowship.
- He/She must acknowledge the support of SSS-NIBE in the publication(s). One copy of each of all the research papers published must be sent to SSS-NIBE at each stage of manuscript/publication/reprint.

Patent: The commercial exploitation of the results and ownership of patent rights pertaining to investigations concerning the intellectual work of the SSS-NIBE research fellows/associates will be as follows: -

- (i) SSS-NIBE at its own cost may seek the patent rights and/or commercial exploitation of the results of the intellectual work of the fellow and all right would vest exclusively with SSS-NIBE.
- (ii) All matters concerning ownership of IP and its licensing/exploitation would be

governed by the IP policy defined by the MNRE/SSS-NIBE.

Encouragement for pursuing higher degree. Students selected as JRFs/SRFs may be encouraged to register for Ph.D.



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Application Form for Junior Research Fellow (JRF)/ Senior Research Fellow (SRF)/ Post-Doctoral Fellow (PDF)/ Research Associate (RA)

Fellowship applied for JRF / SRF / PDF / RA (Tick appropriate)

Affix your recent coloured self-attested passport size photograph

1. Candidate Name (IN BLOCK LETTERS):
2. Father's/Husband's Name:
3. Mother's Name:
4. Date of Birth: 5. Gender (Tick): MALE/FEMALE/TRANSGENDER
6. Age (as on last date of application): Years..... Months Days.....
7. Marital Status (Tick): Married/Unmarried/Divorced 8. Nationality:
9. Mobile No.: 10. Email ID:.....
11. Category (Tick): General/SC/ST/OBC/Any Other
12. Present/Communication Address:
..... Pin Code
13. Permanent Address:
..... Pin Code
14. Education Qualification:

| Exam | Subjects/ Specialization | Board / University | Passing Year (MM/YY) | %age |
|-----------------------|--------------------------|--------------------|----------------------|------|
| SSC / X th | | | | |
| XII th | | | | |
| B.Sc./ B.Tech/ BE | | | | |
| M.Sc./ M.Tech/ ME | | | | |
| Ph. D | | | | |

15. Qualifying Examination (Tick Appropriate):- Gate/CSIR/UGC/NET/LS-NET/Other:

Reg. No. Rank/Score Year Valid upto

16. Time required for joining:**17. Research Publication, Awards, Patents, Prizes, etc. (if, any; provide separate list with application):**

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18. Experience (if required attach separate list); follow Reverse chronological order:

| Institution / Organisation Name | Location | Post Held / Designation | From | To |
|---------------------------------|----------|-------------------------|------|----|
| | | | | |
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DECLARATION BY THE CANDIDATE

I, hereby declare that I have carefully read the instructions and particulars supplied to me and that the information provided in this application form are correct to the best of my knowledge and belief. If selected for admission, I promise to abide by the rules and regulations of the Institute. I note that the decision of the Institute is final in regard to selection for admission and assignment to a particular Department and field of study. The Institute shall have the right to expel me from the Institute at any time after my admission, provided it is satisfied that I was admitted on false particulars furnished by me or my antecedents prove that my continuance in the Institute is not desirable. I agree that I shall abide by the decision of the Institute, which shall be final.

Place:

Date:

(Signature of Candidate)

Note: Provide latest Resume along-with application.