

Rolling Advertisement for recruitment of JRF and Post-Doctoral fellowship (PDF) at SSS-NIBE

Applications are invited from eligible candidates for various research fellowships of Junior Research Fellow (JRF) and postdoctoral fellowship (PDF) in the field of Bioenergy under the “SSS-NIBE Bio- Energy Promotion fellowship” at SSS-NIBE, Kapurthala. The research positions for JRF/PDF are purely contractual positions.

Particulars of academic qualifications, research experience and other requirements of the contractual posts are given on the website of <http://nibe.res.in/>

S. No.	Designation	Fellowship Amount (Pre-revised)	Qualification/eligibility	Maximum age
1.	Junior Research Fellow (JRF)	Rs.31000 per month +HRA as admissible or Hostel facility if available.	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.	28 years as on 31/08/2023 and 31/12/2023 for First Round and Second Round scrutiny respectively, 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.
2.	Post-Doctoral fellowship (PDF)	INR 47,000 per Month + (HRA as admissible or Hostel facility if available)	Doctorate (Ph.D.) degree or having 3 years research, teaching and design and development experience after M.E/M.tech with published work in peer reviewed journals (SCI/Engg.)/patents in the field of renewable energy or relevant field of science and engineering	35 Years as on 31/08/2023 and 31/12/2023 for First Round and Second Round scrutiny respectively. The upper age limit is relaxed upto 5 years in the case of women scientist, for physically handicapped candidates and candidates belonging to scheduled castes/tribes and OBC(NCL) candidates as per Govt. of India rules & regulations

Eligible candidates can download the Advertisement, Application Form and Instructions from website <https://nibe.res.in>. The candidates should fill the downloaded Application Form as per the instructions. Those appearing in the final year of Master’s examination from any of the above mentioned agencies, may also be considered for post of JRF and candidates who have submitted their thesis and waiting for viva may also apply for PDF. However, if selected, they will be required to provide proof of degree completion (provisional/original) before joining

Director General

Rolling Advertisement for recruitment of JRF and postdoctoral fellowship
(PDF) at SSS-NIBE

Applications are invited from eligible candidates for various positions of Junior Research Fellow (JRF) and post-doctoral fellowships (PDF) to work under SSS-NIBE Bioenergy 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**” for candidates applying for JRF and “**Application for Post-Doctoral Fellowship (PDF)**” for the candidates applying for PDF, 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 in the field of Bio-Energy. 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

- 2.1.** 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.
- 2.2.** 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.
- 2.3.** 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.

2.4. 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.

2.5. 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.

(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.

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

3.1. 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.

3.2. Age Limit: The upper age limit for JRF shall be 28 years as on 31/08/2023 and 31/12/2023 for First Round and Second Round scrutiny respectively, 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.

3.3. 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 PhD, 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. Post-Doctoral Fellowship (PDF) under SSS-NIRE Bio-Energy Promotion

Fellowship

- 4.1. Essential Qualifications:** The minimum qualification is Doctorate (Ph.D.) degree or having 3 years research, teaching and design & development experience after M.E/M.Tech. with published work in peer reviewed journals (SCI/Engg.)/patents in the field of Renewable Energy or relevant field of science and engineering.
- 4.2. Age Limit:** The upper age limit for Post-Doctoral fellowship / Research Associates shall be 35 years as on 31/08/2023 and 31/12/2023 for First Round and Second Round scrutiny respectively. The upper age limit is relaxed up to 5 years in the case of women scientist, for physically handicapped candidates and candidates belonging to scheduled castes/tribes and OBC (NCL) candidates as per Govt. of India rules and regulations.
- 4.3. Tenure:** PDF will be awarded initially for one year. The fellowship can be extended for another two years (maximum) based on satisfactory performance.
- 5. Stipend / Fellowship Amount (i) Junior Research Fellows (JRF) and (ii) Post-Doctoral Fellow:**

Sl. No.	Designation	Emoluments for first 2 years
1.	Junior Research Fellow (JRF)	INR 31,000 per Month+(HRA as admissible or Hostel facility if available)
2.	Post-Doctoral Fellow	INR 47,000 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 SR/59/Z- 08/2018 dated 30th January, 2019).

6. Service Conditions:

- 6.1. 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.
- 6.2. 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 progressreport to Guide/Project Incharge/Scientist.

- 6.3. DA & CCA:** JRFs/SRFs/PDFs/RAs will not be entitled to these allowances.
- 6.4. 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.
- 6.5. 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.
- 6.6. Bonus & Leave Travel Concession:** JRFs/SRFs/PDFs/RAs will not be entitled to these allowances.
- 6.7. Retirement Benefits:** JRFs/SRFs/PDFs/RAs will not be entitled to these benefits.
- 6.8. 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 accepted

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throughout the year. Applications will be processed periodically.

- 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 Bioenergy Promotion Fellowships are tenable in India. Only bonafide Indian citizens, residing in India are eligible for the award of research fellowship.
- The applications received be screened by a committee for shortlisting 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 31/08/2023 and 31/12/2023 respectively of rolling advertisement.
- The award of SSS-NIBE Bioenergy 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.

Application form for JRF/SRF/RA
SSS-NIBE Bio-Energy Promotion Fellowship-2023-24

Personal Information

Post applied for

- | | |
|---|----------------------------------|
| 1. Full Name (In capital) | 8. Date of Birth (DD/MM/YY) |
| 2. Father's Name | 9. Age (in years) |
| 3. Marital Status | 10. Category (General/SC/ST/OBC) |
| 4. Nationality | 11. Gender |
| 5. Mobile No +91 | Alternate Mob. No. |
| 6. Email Address | |
| 7. Address for Communication | Permanent |
| H. No., Street City/
Town/Village State
PIN | |

EDUCATIONAL QUALIFICATION

Exam	Examination and Subject	Board/University	Passing Year (MM/YY)	Division/Class Grade	Percentage(%)
12. SSC/X					
13. XII/Diploma					
14. B.Sc./B. Tech./BE					
15. M.Sc./M.Tech/ME					
16. Ph.D.					

Qualifying Examination (GATE/CSIR/UGC/LS-NET/Ph.D./Others)

- | | | | | | |
|---|------------|---------|----------|--------|------|
| 17. Whether Qualified in CSIR/UGC/NET/LS-NET? | CSIR JRF | UGC JRF | LS-NET | Others | None |
| Registration Number | Rank Score | Year | Validity | | |
| 18. Whether Qualified in GATE? | Yes | No | | | |
| Registration Number | Rank Score | Year | Validity | | |
| 19. Whether Ph.D. Thesis Submitted/Ph.D. Awarded: | Submitted | Awarded | | | |
- Attach separate sheet for Ph.D. Thesis Details

Professional Experiences (Teaching/Research/Industrial) if any: Attach separate Sheet

- | | | | |
|----------------------|----------------------|------|----|
| 20. Post/Designation | Name of Organization | From | To |
|----------------------|----------------------|------|----|
21. Research Publication, Awards, patents, prizes etc (if any): Attach separate sheet with all the details

22. Any other Relevant Information:

DECLARATION

I hereby declare that I have carefully read the instructions and particulars supplied to me and that the entries made 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 discipline 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