

## **Advertisement for recruitment of Post-Doctoral Fellowship (PDF)/**

### **Research Associate (RA) at SSS-NIBE**

Applications are invited from eligible candidates for the positions of post-doctoral fellowships (PDF)/ Research Associate (RA) 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](mailto:sss.nibe@nibe.res.in) with the subject “**Application for Post-Doctoral Fellowship (PDF) Research Associate(RA)**” for the candidates applying for PDF/RA, 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 PDF/RA 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 carbonto 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. Post-Doctoral Fellowship (PDF) / Research Associate (RA) under SSS-NIRE Bio-Energy Promotion Fellowship**

**3.1. 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.

**3.2. Age Limit:** The upper age limit for Post-Doctoral fellowship / Research Associates shall be 35 years as on last date of receipt of applications . 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.

**3.3. Tenure:** PDF/RA will be awarded initially for one year. The fellowship can be extended for another two years (maximum) based on satisfactory performance.

**4. Stipend / Fellowship Amount (i) Post- Doctoral Fellow/ Research Associate:**

Sl. No.	Designation	Emoluments for first years
1	Post-Doctoral Fellow/Research Associate	INR 58,000 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 30<sup>th</sup> January, 2019).*

**5. Service Conditions:**

**5.1. 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. NO TA / DA will be paid for attending for interview.

- 5.2. 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 progress report to Guide/Project In charge / Scientist.
- 5.3. DA & CCA:** PDFs/RAs will not be entitled to these allowances.
- 5.4. 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.
- 5.5. 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 PDF/RA 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.
- 5.6. Bonus & Leave Travel Concession:** PDFs/RAs will not be entitled to these allowances.
- 5.7. Retirement Benefits:** PDFs/RAs will not be entitled to these benefits.
- 5.8. Publication/Patent:** The results of 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.**

- 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. 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. 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](http://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
- 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.

**Advertisement for recruitment of Research Associate (RA) / Post-Doctoral fellowship (PDF) at SSS- NIBE**

Applications are invited from eligible candidates for the position Research Associate / Post Doctoral fellowship in the field of Bioenergy under the “SSS-NIBE Bio- Energy Promotion fellowship” at SSS-NIBE, Kapurthala. The research positions for Research Associate/PDF are purely contractual positions.

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

S. No.	Designation	Fellowship Amount	Qualification/ eligibility	Maximum age
1.	Post-Doctoral fellowship (PDF)/ Research Associate (RA)	INR 58,000 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 the last date of receipt of applications. 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.

In addition to the above preference will be given to those having research experience as under:-

Sl.	Division	Research Expertise	Vacancy
1	Biochemical Conversion Division	Algal Bioengineering / Water Waste Treatment/ Biofilm	one
2	Electochemcial Process Division	Solid Oxide Fuel Cell TEA- Techno Economic Analyzer/ LCA- Life Cycle Analyzer	one
3	Biomass & Energy Management Division	Material design for the production of high-value chemicals and fuels	one

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. No TA / DA will be paid for attending the interview.

Director General



**Sardar Swaran Singh National Institute of Bio-Energy (SSS-NIBE)**  
(An Autonomous Institute of Ministry of New and Renewable Energy, Govt. of India)  
12 Km. Stone, Jalandhar-Kapurthala Road, Wadala Kalan, Kapurthala (Punjab) 144 603.

Dated: 27-09-2024

**ADVERTISEMENT FOR RECRUITMENT OF RESEARCH ASSOCIATE/POST-DOCTORAL FELLOW (PDF) at SSS-NIBE**

SSS-NIBE invites applications from Indian Nationals for recruitment of Research Associate/ Post-Doctoral Fellow (PDF) under "SSS-NIBE Bio- Energy Promotion fellowship" at SSS-NIBE, Kapurthala in following divisions.

- |  |          |
|--|----------|
| 1 Biochemical conversion Division      | One Post |
| 2 Electrochemical Process Division     | Two Post |
| 3 Biomass & Energy Management Division | One Post |

The research positions for RA/PDF are purely contractual positions.

Interested candidates may go through the eligibility criteria, Terms & Conditions and other details on our website <https://nibe.res.in>. The candidate should send filled application form and self-attested required documents through Speed/Registered Post or on e-mail [sss.nibe@nibe.res.in](mailto:sss.nibe@nibe.res.in) (in single PDF file) with the subject mentioning "APPLICATION FOR RA/PDF" to the following address and email ID within 21 days from the date of advertisement in Employment News:

**The Director General, Sardar Swaran Singh National Institute of Bio-Energy, 12 Km. Stone, Jalandhar-Kapurthala Road, Wadala Kalan, Kapurthala (Punjab) 144 603.**

Email ID: [sss.nibe@nibe.res.in](mailto:sss.nibe@nibe.res.in)

No TA / DA will be paid for attending interview.

Director General



## 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](mailto: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](mailto:sss.nibe@nibe.res.in), Website: <https://nibe.res.in>



### 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)

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:

Affix your recent coloured self-attested passport size photograph

Exam	Subjects/ Specialization	Board / University	Passing Year (MM/YY)	%age
SSC / X <sup>th</sup>				
XII <sup>th</sup>				
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):**.....  
.....**18. Experience** (if required attach separate list); follow Reverse chronological order:

Institution / Organisation Name	Location	Post Held / Designation	From	To

**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.