सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्थान, सूरत

SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT

Office of the Dean (Research & Consultancy)
Ph. No: (0261) 2201134 / 2201135, Email: Dean_rnc-office@svnit.ac.in
PAN: AAAJS1184P GST NO: 24AAAJS1184P1ZP

Advertisement for the Position of Post-Doctoral Fellowship (PDF)
Under Visvesvaraya Scheme for Electronics and IT
Year 2025-26

SVNIT, Surat invites applications in the form of research proposals from highly motivated and research-oriented scholars for the Post-Doctoral Fellow (PDF) position under the Visvesvaraya PhD Scheme for Electronics and IT: Phase II'. The applicant must have a proven track record in Electronics System Design & Manufacturing (ESDM) and IT/IT Enabled Services (IT/ITES) sectors as a part of PhD Thesis work established through their research publications and recognitions. If the Post-Doctoral fellow is availing any other fellowship, he/she is not eligible to apply.

Sr. No.	Department/Programme	Number of Seats
1	Computer Science and Engineering Electronics Engineering	01

Minimum Eligibility:

1. Applicant must be an Indian Citizen
2. Ph.D. from a reputed Institute/University with the First Class or equivalent grade in preceding degrees in the respective discipline, with a consistently good academic record. The Ph.D. awarding Institute/University of the candidate shall be listed at least once within the top 100 NIRF or 500 QS/THE ranking category as per the last 03 Year available report.
3. The application should have published at least 03 research publication in SCI/SCIE journal based on his/ her own doctoral research work.
4. Completed Ph.D. in the last 05 years.
5. The upper age limit for the fellowship is 40 years on the date of submission of application.

Candidates may also note the following points:

1. No TA/DA will be given to the candidates called for the interview.
2. This is full time, non-transferable, temporary position tenable in INDIA only.
3. Candidates will be short listed for the interview based on merit and experience of the available candidates.
4. Decision of selection committee of the SVNIT, Surat will be final.
5. For any further information /clarification, the applicants may contact directly by email.
6. Candidate have to join the position on or before 18th August 2025.

For the more details regarding the further eligibility criteria, Terms & Conditions, SOP and other related information of refer the attached pdf.

HOW TO APPLY: The interested candidates may apply in the prescribed application form (format attached) with complete information and attachments (certificates/documents) in one single pdf file. The completely filled applications may be sent by e-mail on dean_rnc-office2@svnit.ac.in latest by 1st July 2025. **The date and time of interview will be informed by email only.**

The application Should contain the following documents:

1. A covering letter
2. Duly filled application form
3. Mention the name of the mentor from the list of Thrust Area attached
4. Copy of Ph.D., B. Tech. and M. Tech. degree certificates and all semester Marksheets
5. First page of 03 research publication in SCI/SCIE journal
6. Detailed research proposal covering research plan, prepared in the advertised thrust area(s), preferably in consultation with mentor(s) (Maximum 8 pages)
7. Proof of Ph.D. awarding institute listed in NIRF/QS/THE Ranking
8. Two Reference letters
9. Experience certificate(s), if any

List of the Mentors and Thrust Area

Department	Name of the faculty	Designation	Proposed Thrust Area of Research	Brief description on the expected Research work
Department of Electronics Engineering	Dr. Piyush N. Patel	Professor	Antenna based Sensors	Design, Fabrication and Performance Analysis of the Antenna based sensors/biosensors for the societal applications.
	Dr. Shilpi Gupta	Associate Professor	Intelligent Resource Management for Integrated Sensing and Communication in 6G Networks	The primary objectives of this research are: Develop novel resource allocation algorithms for ISAC systems that dynamically adjust the allocation of power, bandwidth, and time resources between sensing and communication based on application requirements and environmental conditions. Design intelligent beamforming techniques that optimize the sensing and communication performance of ISAC systems, taking into account factors such as target location, channel conditions, and interference levels. Investigate the integration of machine learning techniques for adaptive resource management in ISAC systems, enabling the system to learn from past experiences and make intelligent decisions about resource allocation and beamforming. Evaluate the performance of the proposed algorithms and techniques through simulations and experimental prototypes, considering metrics such as sensing accuracy, communication throughput, energy efficiency, and latency.
	Dr. Pinalkumar Engineer	Associate Professor	Edge Intelligence using VLSI	Edge AI is promising need for Embedded low power devices. VLSI chip can be designed to achieve Edge intelligence with lowest power.
	Dr. Shweta Shah	Associate Professor	Leveraging AI for network maintenance or service deployment in next generation	Next-generation communication systems require sophisticated remote maintenance capabilities and dynamic service deployment mechanisms to meet evolving user demands. This research focuses on leveraging artificial

			communication system	intelligence to develop intelligent frameworks that can automatically manage network resources, predict and prevent failures, and optimize service delivery in real-time. The proposed work will investigate AI-driven approaches for predictive maintenance, dynamic resource allocation, and service optimization, ensuring both quality and quantity of service requirements are met. Through machine learning algorithms, particularly deep learning and reinforcement learning, the system will adapt to changing network conditions, user behaviour patterns, and service requirements. The research aims to create self-organizing, self-healing networks that can maintain optimal performance while minimizing human intervention. Key outcomes will include reduced network downtime, enhanced service quality, improved resource utilization, and automated network management capabilities. This work will significantly contribute to the evolution of next-generation communication systems by enabling autonomous, efficient, and user-centric service delivery platforms that can effectively handle the increasing complexity of modern telecommunications networks.
	Dr. K. P. Upla	Associate Professor	Medical image processing using deep learning	Application of medical modality for various task are to be explored. For instance, Image super-resolution, automatic detection and recognition within medical images, writing project proposals, writing journal papers, deployment of models on web server, creating and implementing app-based analysis, etc.
	Dr. Abhishek Acharya	Associate Professor	Design and Optimization of Standard Cells using Nanoscale Transistors at Near Threshold	Design and Optimization of Standard Cells using Nanoscale Transistors at Near Threshold Voltage for IoT and Edge Computing Applications

			Voltage for IoT and Edge Computing Applications	
Department of Computer Science and Engineering	Dr. Sankita Patel	Associate Professor	Privacy Issues and Countermeasures for E-Commerce Reviews	Online shopping through E-Commerce websites have become a new normal. Sharing reviews on E-Commerce websites is useful for communities while buying a product. On the other side, shared reviews may compromise privacy of users of E-Commerce websites for example health status of an individual. This research aims at identification and mitigation of privacy risks on online E-Commerce websites when users share reviews about the product.

SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT

Surat 395007, INDIA

Proposal for Post-Doctoral Fellowship

Instructions:
- Filled in form and other required documents combined into a single PDF file be sent through email to

The office of Dean (R&C) dean_rnc-office2@svnit.ac.in

1. **Name**: …………………………………………………………………………….
   (First Name)   (Middle Name)   (Last Name)

2. **Gender:** (Male/ Female/ Other) ………………………………………………………..

3. **Category:** (General / EWS/ OBC-NCL/ SC/ ST) ....

4. **Marital Status**: …………………………………………………………………………

5. **Date of Birth**: ………………………………………………………………………….

6. **Citizenship Status**: …………………………………………………………………….

7. **Address:**

   Present: ………………………………………………………………………………...

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   Permeant: ……………………………………………………………………………...

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   ………………………………………………………………………………………….

8. **Telephone (Mobile):** +…………………………………………………………….......

9. **Office Telephone (if any):** ……………………………………………………….......

10. **Residence Telephone (if any):** +…………………………………………………………………...

11. **Fax (if any)**: …………………………………………………………………………….

12. **Email ID**: …………………………………………………………………………………

13. **Whether a person with disability:** (YES/ NO) …………………………………………………….

    If "YES", write in appropriate: (OH/ HH/ VH) ……………………………………………………….

    Percentage of Disability: …………………………………………………………………………

    Attested copy of certificate enclosed? YES/NO

14. **Academic Record starting with the undergraduate degree:**

Degree	College/University/Institute	Year of Joining	Year of Completion	Percentage/CGPA	Class/Division (if applicable)

Notification Date: ………………………………………………………………………………..

PhD Advisor/s: …………………………………………………………………………………

Title of Thesis: …………………………………………………………………………………

…………………………………………………………………………………………………

…………………………………………………………………………………………………

Areas of Specialization: …………………………………………………………………………...

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…………………………………………………………………………………………………

Name of Ph.D. degree awarding institute with Ranking: …………………………………….........

15. **Post-doctoral experience, if any, and previous employment (successive positions with the same employer should be listed separately)**

Employer	Position held	Date of Joining	Date of Leaving	Responsibilities and Outcomes

16. **List of Publications (Only Non-Paid SCI/SCIE journal papers):**

17. **Name and Department of proposed mentor/s and Thrust areas as per list:**

18. **Detailed Research Proposal covering Project Title, Project summary, Keywords, Objectives of project, Work methodology, and Research Plan, Expected Outcomes of the Proposal shall be submitted by the candidate.**

19. **Name, Address, and Contact (E-mail and Tel/Mobile) of Two References:**

1.	2.

20. **I hereby declare that all entries in this form as well as the information provided in the attached documents, are true to the best of my knowledge and belief.**

Date: ………..……………………

Place: **Name & Signature**

Terms & Conditions for the Visvesvaraya PhD Scheme – Post Doctoral Fellowship (PDF).

The host institution (where the PDF seats are allotted and candidates are enrolled), must ensure timely selection of the awardees (within the timelines as specified by PhD Cell) against the allotted seats, following the scheme guidelines and their timely reporting to the PhD Cell, Digital India Corporation (DIC), MeitY for registration under the scheme.

Awardees not registered under the scheme will not be eligible for support

1. Eligibility and Duration

1.1 The PDF is awarded to researchers with a proven academic record, including peer-reviewed publications and recognitions.

1.2 It is a full-time, non-transferable, temporary position tenable in India only.

1.3 The fellowship is valid for **1 year**.

1.4 The PDF applicant should be an Indian citizen.

1.5 PDF applicants currently in regular employment will not be considered. However, scientists or researchers with temporary positions in academia or research institutions would be considered, but they would be required to relinquish their current roles if selected for the fellowship.

1.6 The PDF applicant must have obtained a PhD degree from a recognized University with first class (in terms of grades, etc.) in all preceding levels and a good academic record throughout.

1.7 The eligible participating institution must ensure that the PDF applicant should have completed PhD within the past 5 years on the last date of submission of application to the institution.

1.8 PDF applicants should not have completed their PhD at the same institution (host institution) where the PDF fellowship is to be awarded.

1.9 The upper age limit for the fellowship is 40 years on the date of submission of application to the eligible participating institution (host institution).

1.10   A suitable Mentor/Guide, under whom the proposed research would be carried out, must be identified by the institution.

1.11   Mentor/Guide of PDF fellow must hold a regular academic/research position in a recognized institution in India. He/she should hold a Ph.D. degree in Science or Engineering.

1.12   The research proposal of the PDF applicant, to be submitted to the institution, should define clear objectives, outcomes and deliverables against the award.

1.13   Preference would be given to the PDF applicants who have active industry linkages and their research proposal is directed towards industry specific problems.

2. Responsibilities of the PDF Awardee

2.1 In addition to own research work, the awardees need to participate in activities under the Visvesvaraya PhD Scheme as assigned by PhD Cell such as:
   o   Evaluation of research work of PhD Candidates
   o   Mentoring of PhD candidates
   o   Participation in collaborative research under the scheme
   o   Participation in workshops and events
   o   Other assignments by PhD Cell

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2.2 Provide **research proposals** including specific timelines, deliverables, etc. and **monthly progress reports.**

2.3 Report significant achievements during the tenure

2.4 Promptly follow the directions of PhD Cell

2.5 Acknowledge the scheme at all significant forums including publications/ achievements/recognitions etc. using the following template:

> *"This publication/achievement/recognition is an outcome of the R&D work undertaken during the tenure of PDF award under the Visvesvaraya PhD Scheme, being implemented by PhD Cell, Digital India Corporation, MeitY."*

2.6 Inform the PhD Cell **at least one month in advance** for any **long-term leave** (e.g., study leave, sabbatical, etc.).

2.7 Must **not receive any other fellowship** during the award period.

2.8 If any awardee wishes to discontinue the fellowship, the institution should inform PhD Cell, DIC; MeitY immediately. One month's notice is to be given by the institution before the date of discontinuation.

3. Financial Support

- Fellowship: ₹1,08,393/month
- Contingency Grant: ₹1,00,000/year (disbursed on a **pro-rata** basis, e.g. ₹25,000/quarter)

- Contingency Grant usage is restricted to:
  - Minor equipment
  - Consumables
  - Research-related items
- No provision for hiring research staff.

- The institution must:
  - Provide administrative/infrastructural support.
  - Intimate PhD Cell, DIC through email about non-performance, non-compliance with the schemes guidelines, absence, leaves, etc. or other reasons, affecting the fellowship amount or resulting in fellowship stoppage of any PDF awardee at any point of time.

  - Secure receipts of such intimation by PhD Cell, DIC well in advance as the fellowship would be released by PhD Cell DIC, as soon as possible, once the fellowship becomes due. In absence of such intimation, PhD Cell, DIC will continue to transfer the fellowship directly to the PDF awardee every month of a financial year.

  - If due to non-intimation or late intimation by the respective institute, the fellowship is released to the PDF awardee by PhD Cell, DIC then it will be the responsibility of the institute to recover that amount paid to the awardee in excess & beyond eligibility. PhD Cell, DIC in its sole discretion may decide to recover it from the amount due to be paid to the institute under other budget heads of the scheme.

  - Close the accounts, in the event of drop out or tenure completion, with all required formalities including submission of Utilization Certificates (UCs), Statement of Accounts (SoA), completion report and other required documents.

Signature and Seal of Nodal Officer	Signature and Seal of Head of the Institution

- Return unspent balances with interest, if any.

4. Review and Monitoring
Performance will be periodically reviewed by the PhD Cell via:
- Reports
- Expert visits
- Workshops and interactions
- Any other methods as deemed appropriate by the PhD Cell

5. Discontinuation and Termination
5.1 If any fellow wishes to discontinue the fellowship, the institution should inform PhD Cell, DIC; MeitY immediately. One month's notice is to be given by the institution before the date of discontinuation.

5.2 The implementing institution (host institution) should not incur any expenditure under the award from the date of termination of the award/project or the date of resignation of the fellow. The institution will be responsible for the submission of work report and other requisite documents.

5.3 In case the post-doctoral fellow undertakes any full/part-time assignment, his/her PDF award under the scheme would be discontinued.

5.4 PhD Cell, DIC; MeitY reserves the right to hold/ stop/ discontinue the fellowship at any stage, if
- Appropriate progress is not being made.
- The grant is not being utilized properly.
- Reports/responses/details etc. are not submitted timely and in the prescribed format or directions of PhD Cell are not followed.
- Violation/ Non-compliance of guidelines.
- Any other reason, which is deemed appropriate by PhD Cell, DIC, MeitY

5.5 In cases of dropouts or termination of PDF awards:
- The institution must **cease further expenditure**
- Close the accounts with all required formalities including submission of Utilization
- Certificates (UCs), Statement of Accounts (SoA), completion report and other required documents.
- Return unspent balances with interest, if any.

Note: There is **no provision to replace or transfer** an awardee.

6. Acceptance and Declaration
- Email a **scanned signed copy** to: phd-scheme@digitalindia.gov.in
- Send the **original signed copy** to:

Sh. Sandeep Bansal
In-Charge, PhD Cell
Room No. 2084, Electronics Niketan
6, CGO Complex, Lodhi Road
New Delhi – 110003

Signature and Seal of Nodal Officer	Signature and Seal of Head of the Institution

7. Other Important Points:

- **The institution may design/have its own application form for advertisement of PDF; however, the guidelines for PDF are to be followed.**
- **Just fulfilling the minimum eligibility criteria should not entitle a candidate to be selected.**
- **PhD Cell, DIC; MeitY may change the T&C at its discretion, if deemed necessary.**

Declaration

We have read and agree to abide by these Terms & Conditions, including any updates.

Signature and Seal
Name of the Nodal Officer
Name of the Institution
Date

Signature and Seal
Name of the Head of the Institution
Name of the Institution
Date

Signature and Seal of Nodal Officer	Signature and Seal of Head of the Institution

Standard Operating Procedure (SOP) for Post Doctoral Fellowship (PDF) Awardee and Host Institution

1. Onboarding and Reporting

The host institution must ensure timely selection of the awardees (within the timelines as specified by PhD Cell) against the allotted seats, following the scheme guidelines and their timely reporting to the PhD Cell, Digital India Corporation (DIC), MeitY, for registration under the scheme.

1.1 Awardees not registered under the scheme will not be eligible for support.

1.2 The institution must notify the PhD Cell immediately about any dropouts or termination of PDF awardees.

2. Progress and Research Reporting

During registration under the scheme, the awardees need to submit proposals including specific timelines, deliverables, etc. Subsequently, the PDF awardees must submit monthly progress reports in the format specified by the PhD Cell. They must also update the PhD Cell on any publications, patents, start-ups, or other outputs resulting from their research.

Institutions are required to ensure timely and accurate submission of these reports.

3. Financial Support

3.1 The fellowship amount of ₹1,08,393/- per month will be transferred directly to the PDF awardee's bank account. Contingency Grant of ₹1.00 lakh per year will be calculated on a pro-rata basis (e.g. ₹0.25 lakh per quarter).

3.2 In case of non-performance, non-compliance with the scheme's guidelines, absence, leaves, etc. or other reasons, affecting the Fellowship amount or resulting into Fellowship stoppage of any PDF awardee at any point of time, the institution shall intimate PhD Cell, DIC regarding the same immediately through email to PhD Cell. The institution needs to secure receipts of such intimation by PhD Cell, DIC well in advance as the fellowship would be released by DIC, as soon as possible, once the fellowship becomes due.

3.3 In absence of such intimation, PhD Cell, DIC will continue to transfer the fellowship directly to the PDF awardee every month of a financial year.

3.4 If due to non-intimation or late intimation by the respective institute, the fellowship is released to the PDF awardee by PhD Cell, DIC then it will be the responsibility of the institute to recover that amount paid to the candidate in excess & beyond eligibility. PhD Cell, DIC in its sole discretion may decide to recover it from the amount due to be paid to the institute under other budget heads of the scheme.

3.5 The awardee must submit a detailed proposal with planned expenditure from Contingency budget head, in the prescribed format. Reimbursements may also be considered, subject to expenditure, per scheme guidelines. Expenditure beyond pro-rata eligibility will not be considered.

Signature and Seal of Nodal Officer	Signature and Seal of Head of the Institution

3.6 The host institution must submit Utilization Certificates (UCs), Statement of Accounts (SoAs), and Statement of Expenditure (SoEs) along with requests for the next quarter's fund release. Unspent balances and interest, if any, must be refunded to the PhD Cell.

4. Completion and Exit Formalities

Upon completion of the fellowship, the institution must submit a final completion report and all requisite documents. The format for the final report will be shared by the PhD Cell.

5. Compliance and Termination

5.1 Both the institution and the PDF awardee are required to adhere to the scheme guidelines and instructions, issued periodically by the PhD Cell.

5.2 The PhD Cell reserves the right to hold, stop, or terminate support for the PDF award at any stage due to reasons including, but not limited to, inadequate progress, non-compliance with guidelines, or any other reason deemed appropriate.

6. Acceptance and Declaration

- Email a **scanned signed copy** to: phd-scheme@digitalindia.gov.in

- Send the **original signed copy** to:

    Sh. Sandeep Bansal
    In-Charge, PhD Cell
    Room No. 2084, Electronics Niketan
    6, CGO Complex, Lodhi Road
    New Delhi – 110003

Declaration
We have read and agree to abide by these SoPs, including any updates.

Signature and Seal
Name of the Nodal Officer
Name of the Institution
Date

Signature and Seal
Name of the Head of the Institution
Name of the Institution
Date

Signature and Seal of Nodal Officer	Signature and Seal of Head of the Institution