



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

(An Institution of National Importance by MoE, Govt. of India)

PDF Admission under "Visvesvaraya PhD Scheme for Electronics and IT: Phase II" Sponsored by MeitY, Govt. of India, Academic Year: 2025 - 26

Ref No. NITS/VPDF/2025-26/01

Date: 15-06-2025

NIT Silchar invites applications for Postdoctoral Fellowship (PDF) positions under the Visvesvaraya PhD Scheme at NIT Silchar for the academic year 2025-2026. For more details regarding Visvesvaraya Ph.D. scheme, interested candidates may explore the webpage: <http://phd.digitalindiacorporation.in/>

ELIGIBILITY AND DURATION:

1. The PDF is awarded to researchers with a proven academic record, including peer-reviewed publications and recognitions.
2. It is a full-time, non-transferable, temporary position tenable in India only.
3. The fellowship is valid for **1 year**.
4. The PDF applicant should be an Indian citizen.
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.
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.
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.
8. PDF applicants should not have completed their PhD at the same institution (host institution) where the PDF fellowship is to be awarded.
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).
10. A suitable Mentor/Guide, under whom the proposed research would be carried out, must be identified by the institution.
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.
12. The research proposal of the PDF applicant, to be submitted to the institution, should define clear objectives, outcomes and deliverables against the award.
13. Preference would be given to the PDF applicants who have **active industry linkages and their research proposal is directed towards industry specific problems.**



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FELLOWSHIP DETAILS:

Category	Fellowship Amount	Duration	Additional Requirments
Postdoc Fellowship (PDF)	₹1,08,393/month	Up to 1 year	Contingency Grant: ₹1,00,000/year (disbursed on a pro-rata basis, e.g. ₹25,000/quarter)

SPECIALISATIONS IN PDF PROGRAM UNDER THE SCHEME:

Sl.No	Departments	Specialization
1	Computer Science Engineering	Machine Learning, Deep Learning, Artificial Intelligence, Signal and Image Processing, Natural Language Processing, Communication Systems (Wireless, Optical, Networking), Security and Cryptography, Quantum Computing, Computer Vision, Optimisation, Data Science, Bioinformatics, Health Informatics, Distributed Computing, Blockchain, and Multimedia Technologies.
2	Electrical Engineering	Control of Cyber-Physical systems, Biomedical Systems and control, Socio-Psychological Modelling, Computer Vision, Signal Processing, Intelligent Instrumentation, Semiconductor devices, Packaging, Wide Bandgap Devices, IGBT Modules, EV Charging, Solid-State Transformers, Low-Power DC-DC Converters, VLSI, Embedded Systems, Memory Design, Image Processing, IoT, Power management ICs.
3	Electronics and Communication Engineering	Signal Processing, Analog/Digital Circuits, VLSI & MEMS, Semiconductor Devices & Modeling, Micro/Nanoelectronics, Nanotechnology & Biosensors, Solar Cells, Communication Systems (Wireless, Optical, Satellite, 5G/6G, UAV, RF MEMS), Antennas & Metamaterials, Information Theory, Energy Harvesting, Optimization, Machine Learning & Deep Learning, Perovskite Materials, Band Structure, RF Resonators.
4	Electronics and Instrumentation Engineering	Energy storage & management (batteries, supercapacitors, solar PV, EVs), Healthcare automation & drug delivery systems, Nanosensors



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		& flexible electronics, 5G and beyond communication, Signal & image processing, Blockchain technology, AI/ML/DL in renewable energy and biomedical engineering, VLSI & emerging memory technologies (materials, fabrication, characterization)
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Note: Meeting the minimum criteria does not guarantee an interview or admission. The committee may set higher shortlisting criteria.

HOW TO APPLY?

Candidates must fill out the Google Form and upload a PDF file containing their updated biodata, scanned copies of the duly filled-in application form, relevant certificates, and mark sheets. All scanned documents must be self-attested on every page and compiled into one merged PDF file. The complete file must be uploaded using the following Google link: [Online Application Form](#)

IMPORTANT DATES:

Sl.No	Particulars	Date
1	Start of Online Application	16-06-2025
2	Last Date for submission of Online application	15-07-2025
3	Tentative Schedule For Interview	24-07-2025

APPLICATION CHECKLIST:

Candidates must bring all original documents along with one set of photocopies of the following:

1. Duly filled-in application form (hard copy).
2. Mark sheets/Grade cards of:
 - o Secondary (10th)
 - o Higher Secondary (12th)
 - o All university examinations (UG/PG/Ph.D.).
3. Proof of date of birth (e.g., birth certificate or Class 10 certificate).
4. Research proposal write up defining clear objectives, outcomes and deliverables against the award.
5. Any other documents related to publications, patents and other testimonials.

SELECTION PROCESS

1. The admission core committee is responsible for the selection and recommendation.
2. No TA/DA will be provided.



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3. Candidates should make their arrangements for the stay.
4. Shortlisted candidates will be informed by email. Only selected candidates will be contacted.

FOR FURTHER QUERIES:

Prof. Jyoti Prakash Mishra

The Nodal Officer.

Visvesvaraya PhD scheme, Phase II

Dept of Electrical Engineering

National Institute of Technology Silchar, Assam- 788010.

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Post-Doctoral Fellowship (PDF) Guidelines

Support for 225 Post-Doctoral Fellowships for candidates @ 25 seats per year for a period of support of one year is provisioned to encourage specialized research in emerging areas. Post-Doctoral Fellowship is meant for those who have a proven track record as evident from their research publications and recognitions. If the Post-Doctoral fellow is availing any other fellowship, he/she is not eligible to apply.

1. Eligibility:

- a) Proposals for allotment of PDF seats are to be submitted by eligible institutions only. Suitable no. of seats would be allotted to institutions for further enrollment of PDF fellows on these seats following the scheme guidelines.
- b) The PDF applicant should be an Indian citizen.
- c) The PDF applicant must have obtained PhD degree from a recognized University with first class (in terms of grades, etc.) in all preceding levels and a good academic record throughout.
- d) 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.
- e) The upper age limit for the fellowship is 40 years on the date of submission of application to the eligible participating institution.
- f) A suitable Mentor/Guide under whom the proposed research would be carried out, must be identified by the institution.
- g) 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.
- h) Preference would be given to the PDF applicants who have active industry linkages and their research proposal is directed towards industry specific problems.
- i) The research proposal of the PDF applicant, to be submitted to the institution, should define clear objectives, outcomes and deliverables against the award.
- j) 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 however, they would be required to relinquish their current roles if selected for the fellowship.
- k) PDF applicants should not have completed their PhD at the same institution where the PDF fellowship is to be awarded.

2. Nature & Duration of Support:

- a) The fellowship is tenable only in India and can be implemented in any of the recognized &
- b) eligible academic and R&D institutions.
- c) The fellowship is purely a temporary assignment, and is tenable for a period of 01 year.



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- d) The award will be for one year initially and extendible based on performance review by PhD Cell, DIC, MeitY.

The fellows will be entitled to receive the grants as given below:

S. No.	Budget Head	Amount
1	Fellowship	Rs. 1.08 Lakh per month
2	Contingency	Rs. 1.0 Lakh for the year

- e) Contingency Grant can be used for minor equipment, consumables and similar items relevant to the research work. The host institution should provide necessary administrative and infrastructural support for the PDF fellow.
- f) There is no provision for providing research personnel support under the scheme. The fellow is expected to undertake the research objectives by himself/herself during the entire duration of the fellowship.
- g) PDF is a full-time assignment. The fellows are not eligible to receive any other fellowship from any Government or Non-Government source during the tenure of the fellowship.
- h) Post-doctoral positions are non-transferrable. The research work is to be carried out in the same eligible institution at which PDF seat is allocated and the fellow is enrolled.

3. Mode of Application

- a) The call for proposal for PDF seats will be notified by PhD Cell, DIC; MeitY through the web portal <https://phd.digitalindiacorporation.in> and/or email.
- b) The institution may design/have its own application form for advertisement of PDF; however, the guidelines for PDF are to be followed.
- c) Just fulfilling the minimum eligibility criteria should not entitle a candidate to be selected.
- d) PhD Cell, DIC; MeitY may change the T&C at its discretion, if deemed necessary.

4. Discontinuation of the Fellowship

- a) 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.
- b) The implementing institution should not incur any expenditure from the date of termination of the award/project or the date of resignation of the fellow. The institution will be responsible for submission of work report and other requisite documents.
- c) In case the post-doctoral fellow undertakes any full/part-time assignment, his/her PDF award under the scheme would be discontinued.
- d) 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.
 - Violation/ Non-compliance of guidelines.
 - Any other reason, which is deemed appropriate by PhD Cell, DIC, MeitY