



### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### CALL AT A GLANCE

### The Scheme

The scheme is for supporting aspiring PhD scholars with double scholarship (up to Rs. 6 lakh per annum), 50% of which will be provided by government and balance 50% by a sponsoring industry, for doing research for four years and the research fellow will receive PhD degree by doing this industrial research.

### Eligibility

- One doctoral fellow and one industry will apply jointly. The application has to be filled by the doctoral fellow
- Doctoral fellow should be have registered for full-time PhD program in the academic year in 2013-14 in any recognised Indian University or Institution or Research Laboratory in India
- Doctoral fellow should obtain 'No Objection' from his/her Institution before applying
- Doctoral fellow should have identified (before applying) an industry partner/co-applicant who should be ready to support the research project financially and also lend technical and intellectual support
- Areas of research should be in Science, Technology, Engineering, Agriculture or Medicine
- The topic of research should have practical relevance and industrial application
- The candidate and the proposed research topic should qualify on criteria of excellence and relevance and be of technical and scientific merit
- The selected doctoral fellow should be willing to work with / in industry as and when required by the industry partner during the project period
- The research duration should not be more than four years leading to award of PhD degree to the doctoral fellow

### **Selection Process & Broad Criteria for Selection**

- A high level Apex Council consisting of members from academia, industry and government will review the applications and select the candidates for award of PM Fellowship.
- The project should be innovative and of high scientific merit; with discrete R&D as opposed to exploratory investigation
- The proposed research should have a high potential to translate into a business opportunity and commercialization
- High credibility, capacity of doctoral fellow and the institution
- High degree of business interest, involvement and collaboration of industry





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### **Funding Support**

- Up to 100 research projects would be supported against the present call and the Fellowship will be paid from financial year 2014-15.
- The Fellowship amount will be up to Rs. 6,00,000/- per annum maximum per candidate.
- 50% of this amount will come from SERB [being equivalent to the prevailing Government norms for JRF /SRF (inclusive of HRA)] of maximum Rs 3,00,000/- per annum and will be revised as per the JRF/SRF norms from time to time.
- Rest 50% (matching equivalent of SERB component) will come from the partner industry co-applicant.
- Duration of the Fellowships will be a maximum of four years leading with awarding of PhD degree
- If selected to receive the Prime Minister's Fellowship for Doctoral Research, the candidate will cease to receive any other scholarship / salary from any other organisation which he / she may be receiving at present

### **How to Apply**

- Applications have to be submitted online
- For applying, log on to: www.primeministerfellowshipscheme.com

### **Important Dates**

Last date of Online Submission of Application Form: 30 November 2013

Announcement of Results: January / February, 2014

Signing of MOUs among selected PhD Fellows, Industry and Institutes: March / April, 2014

Release of Fellowship amount to Research scholar: April / May. 2014

### Contact

- SERB, DST, Government of India: Email: <a href="mailto:sskohli@nic.in">sskohli@nic.in</a>
- Confederation of Indian Industry (CII): shalini.sharma@cii.in & neha.gupta@cii.in





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### INFORMATION & GUIDELINES FOR APPLICATIONS CONTENTS

1. BACKGROUND	4
2. ELIGIBILITY CRITERIA - WHO CAN APPLY	5
3. BROAD APPLICATION PROCESS	5
4. SUBJECT AREAS IN WHICH APPLICATIONS ARE INVITED	7
5. FELLOWSHIP	7
6. SELECTION PROCESS	8
7. DURATION, REVIEW & TERMINATION OF FELLOWSHIP	9
8. SHARING OF INTELLECTUAL PROPERTY & OTHER RIGHTS	10
9. HOW TO APPLY	10
10. APPLICATION GUIDELINES	12
11. SUPPORTING DOCUMENTS REQUIRED WITH APPLICATION FORM	14
12. IMPORTANT DATES	14
13. MANAGEMENT OF THE SCHEME	16
14. CONTACT INFORMATION	16
Annexure I: Application Form	
Annexure II: Sample Agreement	





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### 1. BACKGROUND

India is far behind many countries including China in terms of number of PhDs passing out of Indian university system every year. This has many reasons. Indian industry's investment in Research & Development, barring a few sectors like pharmaceuticals and biotechnology, is very poor compared to global benchmark and they don't recruit PhDs in large scale. On the other hand, Government's doctoral fellowship amount is not attractive and talented students tend to accept jobs than pursuing PhDs.

Government of India and Confederation of Indian industry have been very concerned about this trend and explored an innovative model where talented students and industry will be attracted to join hands in a process where doctoral fellows will get double fellowship amount and the industry will initiate a research project.

The scheme invites applications from doctoral fellows who are enrolled in any recognised university and institutions in India in the current year and want to do industrial research, should find an industry sponsor with whom the doctoral fellow will decide the research topic. The sponsoring industry should agree to pay maximum Rs. 3 lakhs per year (+10% program management fee), for four years and be involved in the research project with the doctoral fellow and the institution.

The scheme is currently designed to support 100 such fellowships in a year.

It was envisaged that, this scheme would eventually impact on attracting large number of talented students pursuing PhDs and on changing industry's mindset in investing in R&D and recruiting more PhDs.

The Hon'ble Prime Minister announced this scheme in June, 2012 and on 8th November 2012, Hon'ble Minister for Science & Technology and Earth Sciences, Mr. S Jaipal Reddy launched the scheme.

The First Call for Application was announced in November, 2012 and within a month, more than 200 applications from doctoral fellows and industry were received. A high level Apex Council chaired by Dr. M K Bhan, Former Secretary of Department of Biotechnology, selected 28 Fellowships. The Hon'ble Prime Minster conferred the fellowships to 28 students at 100<sup>th</sup> Indian Science Congress on Jaunary 3, 2013 in Kolkata.

The second Call for Application is announced now to select maximum 100 Fellowship in this year of 2013-14.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### 2. ELIGIBILITY CRITERIA - WHO CAN APPLY

- 2.1. One doctoral fellow and one industry jointly should apply. Doctoral Fellow will be the Applicant and industry will be Co-Applicant
- 2.2. Doctoral fellow should have registered for full-time PhD program in the academic year in 2013-14 in any recognised Indian University or Institution or Research Laboratory in India
- 2.3. Doctoral fellow should have excellent academic track record
- 2.4. Doctoral fellow should obtain 'No Objection' from his / her Institution before applying and will get a letter of commitment from the Head of the Institution
- 2.5. Doctoral fellow should have identified (before applying) an industry partner / coapplicant who should be ready to support the research project financially and also lend technical and intellectual support. Doctoral Fellow will get a Letter of Commitment from the industry partner before applying.
- 2.6. Institution and Industry should NOT have any relationship in terms of ownership and business affiliations and should not be under a single group.

### 3. BROAD APPLICATION PROCESS

### 3.1 Applicant : Doctoral Fellow

- 3.1.1 Get an in-principle approval from academic research guide and Head of the institution for applying for this Fellowship.
- 3.1.2 Develop preliminary proposal for research based on the self's qualification / strength / skills aiming for a particular sector of industrial applications, in consultation with academic research guide.
- 3.1.3 Engage with some industry to explore industry's interest on the research proposal.
- 3.1.4 Finalise the research proposal in consultation with industry and academic guide.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

- 3.1.5 Get a Letter of Commitment from Industry who will be ready to pay maximum Rs. 3 lakh per year (+10% program management fee), for four years and be involved in the research project with the doctoral fellow and the institution.
- 3.1.6 Get a letter of commitment from the Head of your institution that will be ready to allow you to work in the institute and in the premises of sponsoring industry, as and when needed and for joint (industry + institute) review of progress of research.
- 3.1.7 Apply online for the PM Fellowship (Application Form enclosed in Annexure 1).
- 3.1.8 Once selected, sign an agreement (<u>Sample agreement enclosed in Annexure 2</u>) with sponsoring industry and your institution clearly defining the roles and responsibilities including sharing of Intellectual Property that may be generated as the outcome of the research.
- 3.1.9 Execute the research project as per the mutually agreed process and timelines.

### 3.2 Co-Applicant : Industry

- 3.2.1 Engage with doctoral fellows who will approach you, either directly or through CII, to explore partnership with the doctoral fellow in his / her research project of your interest.
- 3.2.2 In case, you already have a research assignment, you identify a capable doctoral fellow (from a recognised university / institution) who can conduct the research on your assignment during his / her PhD course.
- 3.2.3 Finalise the research proposal in consultation with doctoral Fellow and his / her academic guide.
- 3.2.4 Provide a Letter of Commitment to doctoral fellow to pay maximum Rs. 3 lakh per year (+10% program management fee), for four years and to be involved in the research project with the doctoral fellow and the institution.
- 3.2.5 Sign up application form jointly with doctoral fellow, online for the PM Fellowship (Application Form enclosed in Annexure 1)





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

- 3.2.6 Once selected, sign an agreement (<u>Sample agreement enclosed in Annexure 2</u>) with doctoral fellow and his / her institution clearly defining the roles and responsibilities, including sharing of Intellectual Property that may be generated as the outcome of the research.
- 3.2.7 Execute the research project as per the mutually agreed process and timelines.

### 4. SUBJECT AREAS IN WHICH APPLICATIONS ARE INVITED

- 4.1. Applications with research proposals in the following broad areas are invited:
  - 4.1.1. Science
  - 4.1.2. Technology
  - 4.1.3. Engineering
  - 4.1.4. Agriculture
  - 4.1.5. Medicine
- 4.2. The proposed research should qualify on criteria of excellence and relevance and be of technical and scientific merit.
- 4.3. The proposed research should have practical relevance and industrial application.

### 5. FELLOWSHIP

- 5.1. Up to 100 Fellowships would be provided against the present call in 2013-14 and the Fellowship will be paid from financial year 2014-15.
- 5.2. The Fellowship amount will be up to Rs. 6,00,000/- per annum maximum per candidate.
- 5.3. 50% of the fellowship will come from SERB [being equivalent to the prevailing Government norms for JRF /SRF (inclusive of HRA)] of maximum Rs 3,00,000/- per annum and will be revised as per the JRF/SRF norms from time to time.
- 5.4. Rest 50% (matching equivalent of SERB component) will come from the sponsoring industry co-applicant.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

- 5.5. Duration of the Fellowships will be a maximum of four years leading to awarding of PhD degree
- 5.6. If selected to receive the Prime Minister's Fellowship for Doctoral Research, the candidate will cease to receive any other scholarship / salary from any other organisation which he / she may be receiving at present

### 6. SELECTION PROCESS

- 6.1. A high level Apex Council consisting of members from academia, industry and government will review the applications and select the candidates for award of PM Fellowships.
- 6.2. The broad criteria for selection of projects will be:
  - 6.2.1. The project should be innovative and of high scientific merit; with discrete R&D as opposed to exploratory investigation
  - 6.2.2. The proposed research should have a high potential to translate into a business opportunity and commercialization
  - 6.2.3. High credibility, capacity of doctoral fellow and the institution
  - 6.2.4. High degree of business interest, involvement and collaboration of industry
- 6.3. Broadly the spread of marks across four criteria will be as follows:

Innovation & Scientific Merit	Potential for Industrial Applications	Capability of Research Fellow & Institute	Industry collaboration & involvement	Total
25	35	25	15	100

### 7. DURATION, REVIEW & TERMINATION OF FELLOWSHIP

- 7.1. The duration of the Fellowship under the Prime Minister's Fellowship Scheme for Doctoral Research will be a maximum of four years.
- 7.2. The Fellowship will automatically cease with the submission of the Fellow's thesis.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

- 7.3. The Fellow will be required to submit a written progress report to the Apex Council before 30<sup>th</sup> November every academic year following the commencement of the Fellowship.
- 7.4. Based on the progress report submitted, there will be an annual review of the progress made by the candidate before the Apex Council or a committee nominated by the Apex Council.
- 7.5. Subsequent release of funds will be based on the satisfactory progress of the work done and letters of recommendation from research guide and industry mentor / guide.
- 7.6. The Fellowship will be liable to termination if the Fellow leaves his / her institution or is found to be not dedicating sufficient time or effort to the project.
- 7.7. The Fellowship will be liable to termination if the host institute recognises that for personal, professional or other reasons, the research scholar wishes to terminate his / her Fellowship prematurely.
- 7.8. The Fellowship will be liable to termination should the Fellow be unable for medical reasons to pursue his / her studies in accordance with the Terms and Conditions of the Fellowship.
- 7.9. Once accepted, the offer for implementing the Prime Minister's Fellowship at a particular University / Institute / Laboratory in the country will not be allowed to be transferred to any other University / Institute / Laboratory in the country, at any point, during the four-year tenure of the Fellowship.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### 8. INTELLECTUAL PROPERTY & OTHER RIGHTS

- 8.1. CII and SERB do not possess any rights on any research / products / findings resulting from the above mentioned project. All publications / patents by the Fellow, arising from the work under this Fellowship must contain an acknowledgement of support from SERB, CII and supporting company.
- 8.2. Any dispute arising out of this will be taken care of by the Apex Council.
- 8.3. If the dispute remains unresolved then final arbitration will rest with Secretary, DST.

### 9. HOW TO APPLY (Sample Application Form given as Annexure 1)

- 9.1. Applications will be accepted only in online mode through the web portal www.primeministerfellowshipscheme.com
- 9.2. All candidates are advised to register on this portal for the required matchmaking with industry. Applications will be accepted only through this web portal.
- 9.3. Last date for submission of applications for academic year 2013-14 is 30 November 2013
- 9.4. Frequently Asked Questions (FAQs) while filling the Application Form:

### 9.4.1. How will the Online Application work?

Candidates need to refer to Annexure I for a sample of the Application Form. All the required documents and details needed to be given should be collected before filling the online application.

### 9.4.2. I had filled the application online but before I could click on the 'Submit' button, my net connection snapped and my application was lost. Will I need to fill it again?

While filling the application when you click on the 'Save' button, an html copy of your application with a unique ID will be saved as a web link on your hard disk at the specified path. You can fill this form offline and log on to the Internet only while uploading the filled application form. If the net connection breaks while uploading the application, then the candidate can try submitting the same link at some other time.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### 9.4.3. What is the timeline till which the application can be submitted? Will an additional hard copy, stamped / signed of the application required to be sent to CII?

Applications can be submitted till midnight of 30<sup>th</sup> November 2013. No extensions will be given after this date. Candidates are advised not to wait for the last date for submitting the applications. Technical errors on the midnight of 30<sup>th</sup> November will not be accepted as reason for waiving the deadline. No hard copies are required to be submitted to / sent to CII.

### **9.4.4.** What are the requisite details an applicant needs to fill in? Refer to Annexure I (Sample Application Form).

### 9.4.5. Can I apply if I do not have an industry partner? Will CII help in finding one?

Applications without industry partners will not be accepted by the online system. Candidates have to find industry partners on their own. CII is facilitating match-making between research scholars and industry through the portal <a href="www.primeministerfellowshipscheme.com">www.primeministerfellowshipscheme.com</a>. All those who want to search for industry partners are requested to register themselves on this portal. Registration on this portal, however, will not guarantee that the candidate will find an industry partner. The relevance of their project for industry and the extent to which the candidate is able to convey their capability to the industry will determine whether they will find industry partners or not.

### 9.4.6. How can I find relevant industry partners?

Candidates should talk to their research guides at the institute and find out about the relevant companies in that field. They can do their own research in and around them to find out the right companies and approach them. Candidates should also keep themselves abreast with the latest technologies, trends and companies working in their field. They should try to interact with industry people in their field as frequently as possible to trigger idea thrashing about a particular project.

### 9.4.7. Can CII supply a list of relevant companies in my field?

No. CII cannot supply any list of companies. Candidates are required to do their own research in finding the names of relevant companies. They can visit CII website www.cii.in to look for any sectoral information they may require.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### 9.4.8. If an applicant submits the form, can it be submitted again?

Refer to point number 9.4.2. Candidates can review and re-review their forms any number of times before uploading them finally. Once uploaded, however, the form cannot be submitted again.

### 9.4.9. If I apply this year and am not able to get the scholarship this time, will I be allowed to apply next year?

Every year only the PhD candidates registered in that particular academic year will be allowed to apply. This means that candidates will get only one chance to apply for the scholarship, in the year in which they apply for admission in PhD.

### 9.4.10. Will applicants get automated response to submission? Will somebody call from CII to confirm the receipt of application?

Applicants will get an automatic response at the submission of applications. They will not receive any calls from CII.

### 10. APPLICATION GUIDELINES

Applications will only be accepted in online format through the web portal <a href="https://www.primeministerfellowshipscheme.com">www.primeministerfellowshipscheme.com</a>. Project Proposals will include both a technical component and a plan of how the same will be executed. The technical as well as the execution components should describe the innovation, outline the proposed technical approach and contain a research plan. The proposal will also provide a description of the institutions and the industry and other participants along with detailed resumes of key project personnel. Please refer to the following to get a better understanding of what will be covered in the application form:

- 10.1. The application process will be online.
- 10.2. Applications with project proposals minus an industry partner will not be considered for evaluation. Scholarships will be given only if there is an industry sponsor. There can be two ways to get an industry to sponsor:
  - 10.2.1. The Fellow can approach a company and get it to sponsor him / her before applying.
  - 10.2.2. The industry can reach out to a Fellow and propose to sponsor his / her research and get the PhD Fellow to apply for the scheme.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

- 10.3. For each project there will also be an industry mentor for the PhD Fellow who will be the Co-supervisor / Co-guide.
- 10.4. No overheads will be given to the institute where the full-time PhD Fellow will be enrolled.
- 10.5. Before the start of the Fellowship, industry will be free to sign a Non-Disclosure-Agreement with the candidate and his / her institute, in view of the sharing of the company's data and/or other resources by the candidate.
- 10.6. Publication of Results: Successful candidates will be informed through emails in February 2014. The list of final candidates will also be put up on the website of SERB and CII.
- 10.7. Administrative and Legal requirements to be addressed by the Institute Partner, Industry Partner and the Fellow under the Scheme while signing the Memorandum of Understanding:
  - 10.7.1. Confederation of Indian Industry (CII) will be the implementing agency of the scheme. It will disburse the amount to the institute on a half yearly basis and the institute in turn will pay to the research Fellow.
  - 10.7.2. The institute will disburse the scholarship to the candidate on a monthly basis.
  - 10.7.3. The company supporting the research and SERB will deposit the scholarship amount of four years per candidate with Confederation of Indian Industry (CII) on yearly basis.
  - 10.7.4. It will be the responsibility of the Fellow to get the MoU signed from institute and industry and send the copies for signing to CII. CII will keep one copy of the MoU and return three copies back to the candidate.
  - 10.7.5. Refer to Annexure II for details of administrative and legal requirements for all four parties as per the MoA.

### 11. SUPPORTING DOCUMENTS REQUIRED WITH APPLICATION FORM





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

- 11.1. Undertaking from Research Supervisor and Head of the Organisation / Institute / University as per format given in Application Form
- 11.2. Undertaking from Industry Partner in the research project as per format given in Application Form
- 11.3. CV of the Research Supervisor
- 11.4. CV of the Industry Mentor
- 11.5. Attested Copies of Certificates / degrees acquired by Fellow till date

### 12. IMPORTANT DATES AND DEADLINES

Last date of Online Submission of Application Form	30 November 2013
Announcement of Results	January / February 2014
Signing of MOus between PhD Fellows, Industry and Institutes	March / April 2014
Release of Fellowship amount to Research scholar	April / May, 2014

### 13. MANAGEMENT OF THE SCHEME

- 13.1. The Confederation of Indian Industry (CII) is the implementing agency of the scheme.
- 13.2. The company supporting the research will deposit the scholarship amount of four years per candidate with CII on yearly basis.
- 13.3. CII will disburse the amount to the institute on a half yearly basis and the institute in turn will pay to the research Fellow.
- 13.4. The continuation of the Fellowship will be based on the yearly review and recommendations from the industry and the institute.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### 14. CONTACT INFORMATION

### Department of Science & Technology, Government of India

### Mr S S Kohli

Director
Department of Science & Technology
Ministry of Science and Technology
Government of India
Technology Bhawan, New Mehrauli Road
New Delhi – 110016
Tel: 011-26590499

E: sskohli@nic.in

### **Confederation of Indian Industry**

### Ms Shalini S Sharma

Head – Higher Education Confederation of Indian Industry 3rd Floor, IGSSS Building 28, Institutional Area, Lodi Road New Delhi – 110003 Tel: 011-45772044

E: shalini.sharma@cii.in



Application No. (Office Use Only)

**Submission Date** 

Code)



# CALL FOR JOINT APPLICATIONS FROM DOCTORAL FELLOWS & INDUSTRY TO

### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### **Annexure I: APPLICATION FORM**

**Instructions:** This Application Performa is to be filled only through the web portal www.primeministerfellowshipscheme.com by those who have already enrolled for full-time PhD for

academic year 2013-14 with an institute and have industry partners.			
Please include with this application (1) Undertaking from the Research Supervisor and Head of the Organization of the Institute / University and (2) Undertaking from the Industry Partner in the Research Project. Additional documents may be required from applicants, which will be based on request. For detailed guidelines and instructions, refer to the <b>Call for Proposal document</b> .			
1. Subject (Scie	nce / Technology / Engineering / Agriculture / Medicine)		
2. Project Title	9		
Project Title (Subject)	(Do not exceed 60 characters)		
Project Start Date:	End Date:		
3. Applicant C	Contact Information		
Last name of applicant Unde	First name of applicant rline the portion of the Name candidate is generally known by		
Permanent Address (Include Parent's Name, Village / Town/ City, Pin Code)			
Telephone (with STD	Telephone (Mobile)		





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

Communication Address (Include Village / City, Pin Code, S					
Telephone (with a Code)	STD		Telep	ohone (Mobile)	
Email-1				Email-2	
Date of Birth (DD-MM-YYYY)			Gender (I	Male / Female)	
Marital Status				Nationality	
4. Educa	itional Qualif	ication (sir	ice 10 <sup>th</sup> I	<b>Board onwa</b>	rds)
<u> </u>	T=	1		T=	T= · · · · = · · · · · · · · · · · · · ·
Certificate / Degree Acquired	Board / College / University / Institute	Subjects taken	Year of Passing	Total marks and marks obtained and % of marks / grades	Rank in the Board / College / University / Institute
		T		T	T
					l I





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

5. Institute Details
Institute details with which enrolled for full-time PhD degree including Communication Address, Phone No, Email (C/o, Village/Town/City, Pin-code, State, Telephone No. with STD code)
6. Executive Summary of the Project
o. Executive Summary of the Project
Synopsis of the Research Project (Up to 300 characters)  Briefly describe the research project, the technological innovation, the functional innovation, the essence of the development, what patents will be issued, & expected outcome by the end date of the project
Outline of the Research Plan including Methodology (Up to 300 characters) Provide a description of the technological aspects of the research project to be conducted within the framework of the project, as well as the corresponding R&D development plan. Describe the functions, applications, and performance / operation related to the project.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

7. Research Supervisor			
Please attach a brief bio-data of the Supervisor n	Please attach a brief bio-data of the Supervisor not exceeding three pages.		
Information about the Research Supervisor			
Last name	First name		
Communication Address			
(Include Village / Town/ City, Pin Code, State)			
Telephone (with STD	Telephone (Mobile)		
Code)	Totophone (Mostle)		
Email-1	Email-2		
Date of Birth	0 1 (M 1 (5 1)		
(DD-MM-YYYY)	Gender (Male / Female)		
8. Current Fellowship			
O. 1. Whether our subtractions are Fallery	ahina DVEC DNO		
8.1. Whether currently availing any Fellows	ship?		
8.2. Are you interested in switching over from	om this Fellowship?	□NO	





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

9. Employment	
9.1. Have you been previously employed in som	e company / institute?
9.2. If "Yes", give details	
9.3. Are you employed in any company / institute	e at present  YES  NO
10. Industry Partner	
Name of Industry Partner	
Communication Address (Include Village / Town/ City, Pin Code, State)	
Telephone (with STD Code)	Telephone (Mobile)
Email-1	Email-2
11. Industry Mentor	
Please attach a brief bio-data of Industry Mentor not ex	ceeding three pages.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

Information about the I	ndustry Mentor
Last name	First name
Communication Address	
(Include Village / Town/	
City, Pin Code, State)	
Telephone (with STD	Telephone (Mobile)
Code)	relephone (Wobile)
- 114	F "10
Email-1	Email-2
Date of Birth	Gender (Male / Female)
(DD-MM-YYYY)	
	Nationality
12. Declar	ation
	Information given by me is true to the best of my knowledge. If
_	e to be found incorrect or false, I am aware that my application liable to be cancelled.
•	
Signature of Applicar	τ
First Name	Last Name
Date	Place
Signature	





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

13. Undertaking from the Research Supervisor and Head of the Organization of the Institute / University			
is (	above information given by the app correct and that he / she is enrolled in Objection towards his / her work unde	full-time PhD	program since We
Signature of the Rese	earch Supervisor		
First Name	l l	_ast Name	
Date		Place	
Signature			
Signature of the Direc	ctor / Registrar / Vice-Chancellor	of the Instit	ute / University
First Name	l	_ast Name	
Date		Place	
Signature			





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

14. Under	taking from the Industr	y Partner	
The company agrees to this candidate for a madesignated Industry Me of the Industry mentor) agreed terms among the part of the curriculum as	(name of the institution)	the PhD Fello for doing ally identified by SERB grant (ab to yearly evaluations will be ising from this wed to attend ostitute. He / she	www) who is enrolled with research on the topic the candidate and industry). Out Rs 3 lakh per annum for uation) to the candidate. The (name research will be on mutually classes and pursue academic
Signature of Compa	ny Chairman / Managing Direct	or / Chief Ope	rating Officer
First Name		Last Name	
Date		Place	
Signature			
Signature of Industry	y Mentor		
First Name		Last Name	
Date		Place	
Signature			
15. Docur	nentation with Applicat	ion	





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

Please upload scanned copies of the following documents:

- Educational Qualifications: Copies of 10th, 12th, Graduation, Post-Graduation / Combined Certificate and mark-sheets of each academic degree
- 2) PhD Enrolment: Supporting documents and certificate related to enrollment and registration for PhD at the present place





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

IN THE AREAS OF

SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### Annexure II Sample Memorandum of Understanding which selected candidates will be required to sign with their institute, industry partner and CII



Company Logo Institute Logo

### Memorandum of Agreement between

Confederation of Indian Industry (CII),

<Candidate Name>,
<Industry Name>,
and

<Institute Name>

for

Implementation of the "Prime Minister's Fellowship Scheme for Doctoral Research", a joint initiative of CII and Science & Engineering Research Board (SERB), for <a href="candidate"><a href="candidate"><a href="candidate">candidate</a> enrolled for full-time PhD at <a href="cinstitute name"><a href="cins

This MoU is made by and between:





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

a) <u>CONFEDERATION OF INDIAN INDUSTRY (CII)</u>, an apex body of Industries, which has its headquarters at the Mantosh Sondhi Centre, 23, Institutional Area, Lodi Road, New Delhi – 110003, hereinafter referred to as "CII"

### <u>and</u>

**b)** < Candidate name >, a 2013 enrolled full-time PhD student at <institute name> who has been recommended by the Apex Council of the "Prime Minister's Fellowship Scheme for Doctoral Research" for the 2<sup>nd</sup> batch of fellowships starting 1<sup>st</sup> April 2014 for a maximum period of four years, hereinafter referred to as "Candidate".

### and

c) < Industry name >, a company headquartered at < to be filled by the company >, which has agreed to provide a financial grant and necessary technical guidance on the research topic of the candidate under the Prime Minister's Fellowship Scheme for Doctoral Research starting 1<sup>st</sup> April 2014, hereinafter referred to as "Industry".

### and

**d)** < Institute name >, the institute where the said candidate is enrolled to pursue full-time PhD under the supervision of the guide assigned by the institute, hereinafter referred to as "Institute".

### 4 Background of Scheme

Public-Private-Partnership (PPP) for human resource capacity building for industrial R&D has been recognized as one of the main deliverables by a Sub-Committee of Prime Minister's Council on Trade & Industry. One of the recommendations that emerged from the private sector is to design, develop and implement a doctoral research scheme in PPP mode for enhancing trust level in academia, research outfits and industry.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

The Hon'ble Prime Minister, in his speech as General President of the Indian Science Congress Association, announced a special scheme for 100 Doctoral Research Fellowships every year during the Inception Ceremony in June, 2012 in Kolkata. Vide Prime Minister's Office ID No—3646245/2012-ES-II dated 2nd November 2012, the Prime Minister's Office approved the proposal of naming the SERB-CII Doctoral Fellowship Scheme as "Prime Minister's Fellowship Scheme for Doctoral Research".

On 8th November 2012, Hon'ble Minister for Science & Technology and Earth Sciences, Mr. S Jaipal Reddy, at AICTE-CII University-Industry Congress & 4th Global Higher Education Summit held in New Delhi, launched the "Prime Minister's Fellowship Scheme for Doctoral Research", being implemented jointly by Science & Engineering Research Board (SERB) and the Confederation of Indian Industry (CII). The scheme is run under PPP mode.

### **Nature of Support**

50 per cent of the fellowship amount will come from SERB [being equivalent to the prevailing Government norms for JRF / SRF (inclusive of HRA)] of maximum Rs 3 lakh for the first year, starting 1<sup>st</sup> April 2014 and will be revised as per the JRF / SRF norms from time to time. Rest 50 per cent (matching the equivalent of SERB component) will come from the partner company. The maximum fellowship amount in the first year will be Rs 6 lakh.

### 5 Objective of MoU

The objective of this MoA is to determine the roles and responsibilities of the four parties under the above stated scheme.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

### 6 About the Project

3.1	About the project
3.1.1	Research Title
3.1.2	Synopsis (up to 300 words)
3.2	Expected yearly milestones
3.2.1	1 <sup>st</sup> year (till December 2014)
3.2.2	2 <sup>nd</sup> year (till December 2015)
3.2.3	3 <sup>rd</sup> year (till December 2016)
3.2.4	4 <sup>th</sup> year (till December 2017)
3.3	Final output envisaged

### 7 Roles and Responsibilities of the Parties

### 7.1 Confederation of Indian Industry (CII)

- 7.1.1 Manage the scheme and act as the contact point for all communications.
- 7.1.2 Transfer the grant money to the candidate / institute every month / every six months on receipt of the grant from SERB and industry contributors.
- 7.1.3 Plan and fix review meetings for project evaluation and provide other support for the success of the project.

### 7.2 < Company name>

- 7.2.1 Pay CII the yearly grant amount for the candidate by 25<sup>th</sup> February every year.
- 7.2.2 Pay CII the 10% management fees yearly by 25<sup>th</sup> February every year.

  (For the first year of the Fellowship, starting 1<sup>st</sup> April 2014, the total amount including the CII management fee payable is Rs 3,30,000/- The cheque should





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

be made in the name of Confederation of Indian Industry and sent at the following address)

Prime Minister's Fellowship Scheme

28, IGSSS Building; 3rd Floor, Institutional Area

Lodi Road; New Delhi-110003

The cheque should have a covering letter in the name of Chief Financial Officer, CII, Lodi Road, New Delhi, stating that the enclosed amount Rs 3,30,000 includes the research grant of Rs 3,00,000 which the company has agreed to provide to XXXX (name of the candidate). Balance Rs 30,000 is the project management fee of CII.

- 7.2.3 Monitor the candidate's research work.
- 7.2.4 Ensure the candidate adheres to the planned milestones.
- 7.2.5 Allow the candidate to pursue the PhD full time.
- 7.2.6 Evaluate the progress and provide letters of recommendation, upon satisfactory achievement of milestones, for the continuation of the candidate's fellowship.
- 7.2.7 Inform CII within 10 days in case of change of industry mentor.
- 7.2.8 Provide necessary expertise, technical guidance and support to the candidate.

### 7.3 < Institute name >

- 7.3.1 Ensure the candidate is not availing any other fellowship / salary apart from the Prime Minister's Fellowship.
- 7.3.2 Research guide from the assigned academic institute should monitor the candidate's research work and ensure the candidate adheres to the planned milestones.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

- 7.3.3 Research guide to inform CII in case the candidate is not meeting the expected targets / not dedicating sufficient time or effort to the project / applying for leaves / travelling for research work / internships.
- 7.3.4 Inform CII in case the candidate wishes to terminate his / her fellowship prematurely for personal, professional or other reasons.
- 7.3.5 Manage the disbursement of scholarship to the candidate on a monthly basis.
- 7.3.6 Appoint a point person for coordinating the management of this scheme with CII.
- 7.3.7 Provide PAN number and details for online bank transfer of funds / issue of cheque to the institute from CII.

### 7.4 < Candidate name >

- 7.4.1 Observe good practices in relation to data management, protection and security.
- 7.4.2 Submit annual progress report by 30<sup>th</sup> November every year.
- 7.4.3 Inform CII in case of change in contact information.
- 7.4.4 Submit the certificate on quarterly basis in the form of undertaking that he /she is not in availing any other benefit other than the given scheme or is not carrying out any other assignment than the subject research project failing which he / she will be liable for action as per the discretion of CII.

### 8 Yearly Review Mechanism

- 8.1 The yearly review of the project will be done during December-February every year.
- 8.2 The candidate will submit a progress report, by 30<sup>th</sup> November every year, signed by the research guide and industry mentor with their respective letters of recommendation for the continuation of the grant.
- 8.3 The progress report to include:





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

- 8.3.1 Progress with reference to experimental work giving details of experimental setup, methods adopted, data collected (supported by necessary tables, charts, diagrams and photographs).
- 8.3.2 Summary of achievements as per the yearly milestones mentioned in this MoA. Additionally can also mention about any new findings/ significant developments etc.
- 8.3.3 Work remaining to be undertaken.

### 9 General

- 9.1 The Prime Minister's Fellowship for Doctoral Research for the candidate starts from 1<sup>st</sup> April 2014, and is for a maximum period of four years thereafter.
- 9.2 The grant money will be transferred to the candidate's account by the end of every month by the institute / CII.
- 9.3 The grant money transferred to the candidate will be for the previous month.
- 9.4 Any dispute arising out of this will be taken care of by the Apex Council for the Prime Minister's Fellowship Scheme for Doctoral Research. If the dispute remains unresolved then final arbitration will rest with Secretary, DST.
- 9.5 The Prime Minister's Fellowship shall be tenable for a maximum period of four years or completion of the PhD programme (i.e. till the final defence of the PhD thesis), whichever is earlier.
- 9.6 Should the Fellow be unable for medical reasons to pursue his / her studies in accordance with the Terms and Conditions of the Fellowship, he / she must inform CII within two weeks of such a situation coming to his / her attention. In such situations, CII will have the right to defer (for a maximum period of nine months) or close the Fellowship.





### PRIME MINISTER'S FELLOWSHIP SCHEME FOR DOCTORAL RESEARCH

A PPP Initiative of Science & Engineering Research Board (SERB) and Confederation of Indian Industry (CII)

### IN THE AREAS OF

### SCIENCE, TECHNOLOGY, ENGINEERING, AGRICULTURE & MEDICINE

9.7 S	ERB and CII reserve the right to revise the Terms and Conditions of this scheme at any
ti	me.
9.8 N	leither SERB, nor CII or Apex Council or the Government of India can be held legally
lia	able for breach of trust by candidates, institute or industry.

9.9 The Fellowship would stop if the industry expresses disinterest or ceases to continue its financial support to the candidate under the Prime Minister's Fellowship Scheme for Doctoral Research.

IN WITNESS WHEREOF the parties hereto have put their hands on the day, month and year aforementioned at New Delhi.					
1 <sup>st</sup> Party	2 <sup>nd</sup> Party	3 <sup>rd</sup> Party	4 <sup>th</sup> Party		
On behalf of CII	Candidate	On behalf of company	On behalf of institute		
Name:	Name:	Name:	Name:		
Designation:	s/d/o:	Designation:	Designation:		