

APPLICATION FORM

**AICTE-INAE TEACHERS RESEARCH FELLOWSHIP SCHEME for
Engineering Teachers for Doctoral Research in Central Laboratories**

I INSTITUTE DETAILS		
Name of the Institute		
Address of the Institute		
Contact Details	Email:	
	Telephone:	
	Fax:	
Permanent Id of the Institute (This Id is available on AICTE web portal)		
*Maximum of two candidates can be sponsored from one institute in the academic year.		
II DETAILS OF CANDIDATE UNDER CONSIDERATION FOR FELLOWSHIP		
Name		
Date of Birth (dd/mm/yyyy)		
Designation		
Date of joining		
Appointment Type		
Scale of Appointment		
Department		
Qualifications	UG (B.E./B.Tech)	PG (M.E./M.Tech)
Year of Passing		
Engineering Discipline		
Engineering College/ Institution		
Overall CGPA/ % Marks		
Experience in years		
Field of study / specialization		
Contact details of the candidate	Address:	

	Tel: Mobile: Email: Fax:
GATE/ CSIR/ UGC-NET Score/Percentile, if available	
PG students guided	
UG Students guided	
Memberships of professional bodies/ fellowships awarded/ awards received (Attach additional pages if necessary)	
Professional activities (Attach additional pages as necessary)	
Techno-commercial activities (Attach additional pages if necessary)	
Outstanding achievements at school level (Attach additional pages if necessary)	
Outstanding achievements at college / University level (Attach additional pages if as necessary)	
III RESEARCH DETAILS	
Title of research proposal	
Technical Field - Nature of work to be undertaken under the scheme	
Abstract (Attach additional pages if as necessary)	
Objectives - Statement of the purpose (500 words) (Attach additional pages if as necessary)	
Engineering Discipline in which research will be carried (Please refer to Appendix-B to select discipline)	
Preferred laboratory of CSIR/DRDO/DAE/DOS identified for research (Please refer to Appendix-B to select lab)	
Project Impact - Expected outcome (Attach additional pages if as necessary)	
Publications (Attach additional pages if as necessary)	
IPR (Attach additional pages if as necessary)	
List of Research/Consultancy Projects completed (Attach additional pages if as necessary)	
Background/Current status of activities in the area (Attach additional pages if as necessary)	

Declaration by Candidate:

- a) I shall abide by the rules and regulations of the laboratory to which I will be offered admission, if selected.
- b) I shall revert to my parent institution after completion of Doctoral programme and serve there for a minimum period of three years.

Signature of the Applicant

Place :

Date :

Declaration by the Head of the Engineering College/Institution

Our institution in which the applicant Mr. /Ms. is a permanent teaching faculty is approved by AICTE.

I have verified the particulars of the engineering teacher as given above and recommend him/her for consideration under the subject scheme. He/she is a worthy candidate for joining the doctoral programme.

Our institution will assist the candidate in pursuing the PhD programme. We also commit that we shall comply with the guidelines of the scheme and that the candidate will be relieved from his teaching duties for a period of 3 years and shall be paid 75% of full salary during his/her tenure under the subject scheme.

I _____ confirm that the above information is true to the best of my knowledge.

Date: _____ Name :

Place: _____ Designation :

Signature and Seal:

(Head of the Institution)

Postal Address

Phone/Mobile No.

Fax:

Please Note: (Copy of AICTE letter of approval to be attached with the application)

AICTE-INAE Teachers Research Fellowship Scheme

Labwise Vacancies for 2019-2020

DAE

SI No.	Organisation	Total Seats	Engineering Discipline
1	BARC	1 1	Mechanical, Metallurgical

DoS

The Annual intake will be restricted to 5

Sl. No.	Research area	Centre/Unit	No. of seat(s)
1.	Aerospace Engineering	LPSC/ URSC / VSSC	1
2.	Aerodynamics	IIST	1
4	MEMS/Material Science/ Thin Films	LEOS	1
5	Laser Spectroscopy/ Detectors/ Semiconductors / Semiconductor Device Physics		
6	VLSI / Microelectronics / Electronic devises	IIST / URSC	1
7	RF / Communication / Microwave Engineering	SAC / URSC / IIST	1
8	Control / Guidance	IIST / URSC / VSSC	1
9	Optics/Optical Engineering	LEOS / SAC	1
10	Structure	IIST / LPSC / URSC / VSSC	1
11	High Performance Computing	ADRIN	1
12	Big data analytics		
13	Computational Fluid Dynamics / Fluid Mechanics	IIST / LPSC	1
14	Planetary Sciences	IIRS	1
15	Oceanography		
15	Applied Geological Applications		
16	Microwave Remote Sensing		

ADRIN : Advanced Data Processing Research Institute, Secunderabad

IIRS: Indian Institute of Remote Sensing

IIST: Indian Institute of Space Science and Technology, Thiruvananthapuram

LEOS: Laboratory for Electro Optics

LPSC : Liquid Propulsion Systems Centre – Thiruvananthapuram and Mahendragiri

SAC : Space Applications Centre, Ahmedabad

URSC: UR Rao Satellite Centre

VSSC : Vikram Sarabhai Space Centre, Thiruvananthapuram

CSIR

S.No.	CSIR Lab Name	Tentative Intake	Engineering Discipline		Area of Research
1.	CSIR-CBRI	5	Civil Engineering Architecture		<ul style="list-style-type: none"> • Structural Engineering • Geo-technical Engineering • Fire Engineering • Construction Materials i/c Concrete Technology • Green Buildings • Rural & Urban Planning
2.	CSIR-CECRI	5	<ol style="list-style-type: none"> 1. Chemical Engineering 2. Electrochemical Engineering 3. Civil Engineering 4. Metallurgical Engineering 5. Material Science 		<ol style="list-style-type: none"> 1. Batteries 2. Corrosion & Metal Protection 3. Metal Finishing Process Engineering
3.	CSIR-CEERI	02	Electronics, Instrumentation, Computer Science		(i) Cyber Physical Systems, (ii) Smart Sensors and (iii) Microwave Devices with indicative specializations of IoT Technologies, Signal Analytics, Cognitive Computing, Integrated Systems, Control and Automation, Nano Bio-Sensors, Microelectronic Transducers and Actuators, Photonics, Optoelectronics, MEMS and MOEMS, Flexible and Non-Silicon Electronics, Microwave Beam Dynamics, Beam-wave Interaction, Microwave Device Technology, Vacuum Microelectronic Devices, Plasma-base Devices, THz Devices, Devices and components for 5G applications, etc.
4.	CSIR-CMERI	08	1	Mechanical/Electronics/ Mechatronics	Robotics-(Rigid body mechanics/Dynamics/Control system/ Navigation and Guidance/Image Processing/Communication/Optimization)

S.No.	CSIR Lab Name	Tentative Intake	Engineering Discipline		Area of Research
			1	Electrical/Electronics/Mechanical	Optimization of Regenerative braking system
			2	Electrical/Electronics/Instrumentation	Sensor Electronics, Instrumentation, Electrical Measurement
			4	Mechanical / Mechatronics / Electrical / Control System / Computer Science / Instrumentation	Design/Dynamics/CONTROL/ Artificial Intelligence applied to of Robotic/Mechatronic Systems
5.	CSIR-CSIO	05	Electronics/ Electronics and Control/ Metallurgy/ Instrumentation/Nanotechnology/ Electronics & Communication/ Computer Science Engineering/ Mechanical Engineering/ Aeronautics and Aerospace Engineering/Biomedical Engineering/ Biotechnology/ Electrical Engineering/ Electrical and Instrumentation Engineering or equivalent branches of Engineering		Avionics, Optics & Photonics, Nano-Science, Nano-technology & Nano-photonics, Advanced Materials & Sensors, Optical Devices & Systems Multi-sensors & Computational Instrumentation Seismic Sensors & Systems Ubiquitous Analytical Techniques Bio-medical Engineering & Instrumentation Agrionics, Precision Mechanical Systems
6.	CSIR-CSMCRI	10	Chemical Engineering, Environmental Engineering, Electrical Engineering, Electronics & Instrumentation Engineering		Process Engineering, Fermentation technology, Environmental impact assessment, Air Pollution, Water Pollution, Water Treatment technologies, Electro-dialysis, Electrochemical and Optical devices.
7.	CSIR-IICT	02	Chemical Engineering		Process Development and Process Systems Engineering
8.	CSIR-IIP	05	Chemical Engineering/ Mechanical Engineering		Catalysis, Catalytic processes, Advanced functional materials/nanomaterials, Biomass to chemicals and fuels, CO2 to fuels, Green chemistry, Waste to Wealth, Petro-refining processes, Heavy Oil

S.No.	CSIR Lab Name	Tentative Intake	Engineering Discipline	Area of Research
				processing and valorization, Reaction Engineering, Modelling and Simulation, Sustainability and Life Cycle Studies, Engine emissions studies, Electric Vehicle development
9.	CSIR-NEERI	02	Civil and Environmental Engineering	Air Pollution Control and Solid Waste Management
10.	CSIR-NML	04	Metallurgical and Materials Engineering	<ul style="list-style-type: none"> - Material Beneficiation - Process Metallurgy - Material Processing - Physical Metallurgy - Mechanical Metallurgy - Advanced Structural Materials - Surface Engineering and Corrosion - Materials Modeling
		01	Chemical Engineering	
Total		49		

DRDO

Sl No.	Organisation	Total Seats	Engineering Discipline
1	DIAT, Pune	1	Department of Computer Engineering

Vacancies awaited

Total = 49(CSIR)+ 2(DAE) +1(DRDO)+ 5(DoS)

= 57 vacancies