



Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA) - 2019-20

Institute Name: PSG College of Technology [ARI-C-37013]

### Pre-Qualifier (Basic Data Requirement For Financial Year (2018-19))

Name of the Institute/ University/ Group of Institutions and any Autonomous Body (Incubation Unit/Research Park etc.) located within same campus	Total Annual Expenditure of Institute/ University/ Group of Institutions/ any Autonomous Body (Incubation Unit/ Research Park etc.) located within same campus (Rupees in Figure)	Total Annual Income of Institute/ University/ Group of Institutions/ any Autonomous Body (Incubation Unit/ Research Park etc.) located within same campus (Rupees in Figure)	Balance Sheet, Income & Expenditure (or) Payment & Receipt Account for FY 2018-19 (Only PDF)
PSG College of Technology	1637205423.00	8916300.00	Document Uploaded in ARIIA DSP
Total (Rupees in Figure)	1637205423.00	8916300.00	

Institute Type : Colleges/Institutes (Govt. & Govt. Aided)

Total Student Base (Enrolled Full Time) for all the Academic Programs Offered by Institute/University (Academic Year 2018-19) := 8626

Total Faculty Base (Full Time) Engaged in Teaching and Research at Institute/University (Academic Year 2018-19) := 597

### Program Conducted by Institute Related to IPR, Entrepreneurship / Start-ups & Innovation

Name of Program (Full Name)	Program Theme	Program Type	Program Category	Organizing Department / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration(in Days)	Program Location	Internal Participants (Student)	Internal Participants (Faculty)	External Participants (Student)	External Participants (Faculty)	Total Number of Participants	Had institute spent expenses either from own resource/rec eived fund to organise the program/acti vity/event?	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)
Entrepreneur ship Awareness Camp	Entrepreneur ship/Startup	Awareness Camp	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	22-06-2018 00:00:00	24-06-2018 00:00:00	3	Within Campus	66	0	0	0	66	Yes	20000
Entrepreneur shipl Awareness Camp	Entrepreneur ship/Startup	Awareness Camp	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	26-07-2018 00:00:00	28-07-2018 00:00:00	3	Within Campus	71	0	0	0	71	Yes	20000
Entrepreneur ship Awareness Camp	Entrepreneur ship/Startup	Awareness Camp	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	09-08-2018 00:00:00	11-08-2018 00:00:00	3	Within Campus	74	0	0	0	74	Yes	20000
Entrepreneur ship Awareness camp	Entrepreneur ship/Startup	Awareness camp	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	26-08-2018 00:00:00	28-08-2018 00:00:00	3	Within Campus	71	0	0	0	71	Yes	20000

Program Conducted by Institute Related to IPR, Entrepreneurship / Start-ups & Innovation

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Entrepreneur ship Awareness Camp	Entrepreneur ship/Startup	Awareness Camp	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	28-09-2018 00:00:00	30-09-2018 00:00:00	3	Within Campus	79	0	0	0	79	Yes	20000
Entrepreneur ship Awareness Camp	Entrepreneur ship/Startup	Awareness Camp	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	01-03-2019 00:00:00	03-03-2019 00:00:00	3	Within Campus	100	0	0	0	100	Yes	20000
Thermo- electric materials, Devices and Systems	Innovation	symposium	Institute Lead Activity	Nanotechnol ogy Research Innovation and Incubation Centre (NRIIC)	10-12-2018 00:00:00	11-12-2018 00:00:00	2	Within Campus	5	5	20	10	40	No	
PSG Nanochallen ge 2018	Innovation	National Level Competition	Institute Lead Activity	Nanotechnol ogy Research Innovation and Incubation Centre (NRIIC)	12-12-2018 00:00:00	13-12-2018 00:00:00	2	Within Campus	0	0	15	5	20	No	
Intellectual Property Rights	IPR	Seminar	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	23-06-2018 00:00:00	23-06-2018 00:00:00	1	Within Campus	66	0	0	0	66	No	
Intellectual Property Rights	IPR	Seminar	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	10-08-2018 00:00:00	10-08-2018 00:00:00	1	Within Campus	74	0	0	0	74	No	
Intellectual Property Rights	IPR	Seminar	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	22-01-2019 00:00:00	22-01-2019 00:00:00	1	Within Campus	0	3	0	15	18	No	
Intellectual Property Rights	IPR	Seminar	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	14-05-2019 00:00:00	14-05-2019 00:00:00	1	Within Campus	0	1	0	17	18	No	
Intellectual Property Rights	IPR	Seminar	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	29-10-2018 00:00:00	29-10-2018 00:00:00	1	Within Campus	0	0	0	24	24	No	
Intellectual Property Rights	IPR	Seminar	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	06-04-2018 00:00:00	06-04-2018 00:00:00	1	Within Campus	0	0	0	20	20	No	
Intellectual Property Rights	IPR	Seminar	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	05-03-2019 00:00:00	05-03-2019 00:00:00	1	Within Campus	0	0	0	15	15	No	

Program Conducted by Institute Related to IPR, Entrepreneurship / Start-ups & Innovation

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Intellectual Property Rights	IPR	Seminar	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	08-06-2018 00:00:00	08-06-2018 00:00:00	1	Within Campus	0	0	0	17	17	No	
Intellectual Property Rights	IPR	Seminar	Institute Lead Activity	PSG Science and Technology Entrepreneur ial Park	09-08-2018 00:00:00	09-08-2018 00:00:00	1	Within Campus	0	0	0	15	15	No	
Protein Purification and Characteriza tion	Innovation	Workshop	Institute Lead Activity	BioNEST	25-10-2018 00:00:00	27-10-2018 00:00:00	3	Within Campus	0	0	12	5	17	No	
Regulatory Clinic	Innovation	Workshop	Institute Lead Activity	BioNEST	22-02-2019 00:00:00	22-02-2019 00:00:00	1	Outside Campus	2	2	29	4	37	No	
BIG grant outreach program	Entrepreneur ship/Startup	Awareness camp	Institute Lead Activity	BioNEST	25-01-2019 00:00:00	25-01-2019 00:00:00	1	Within Campus	5	4	4	15	28	No	
Emerging BioStartup Ecosystem in Coimbatore	Entrepreneur ship/Startup	Awareness program	Institute Lead Activity	BioNEST	07-06-2019 00:00:00	07-06-2019 00:00:00	1	Within Campus	5	6	14	64	89	No	
BioECOSYS inaugural meetup	Entrepreneur ship/Startup	Orientation	Institute Lead Activity	BioNEST	28-09-2019 00:00:00	28-09-2019 00:00:00	1	Within Campus	0	2	34	7	43	No	
Global Bio India Roadshow	Entrepreneur ship/Startup	Roadshow	Institute Lead Activity	BioNEST	15-10-2019 00:00:00	15-10-2019 00:00:00	1	Within Campus	13	6	8	23	50	No	
BIG grant awareness programme	Entrepreneur ship/Startup	Awareness programme	Institute Lead Activity	BioNEST	12-07-2019 00:00:00	12-07-2019 00:00:00	1	Within Campus	0	0	16	10	26	No	
City Camp	Entrepreneur ship/Startup	Awareness	Institute Lead Activity	BioNEST	17-08-2018 00:00:00	18-08-2018 00:00:00	2	Within Campus	0	0	25	20	45	No	

Participation / Representation of Students and (or) Faculties in Events / Programs related to IPR, entrepreneurship / Start-ups & Innovation organized by repute external institutions or agencies at national or international level

Name of Program (Full Name)	Program Theme	Program Type	Organizing Agency / Institute Name	Organizing Agency Type	Program Start Date	Program End Date	Program Duration(in Days)	Participants (Students)	Participants (Faculty)	Total Number of Participants	Awards/Rec ognitions/Ac hievements	Award / Position / Recognition Secured	Title of Innovation / Start-up Secured the Award / Recognition	Had institute spent expenses either from own resource/rec eived fund towards sending delegation to participate/re present the program/acti vity/event?	Total Expense Amount Incurred by Institute? (In Rupees)
NIL	Entrepreneur ship/Startup	NIL	NIL	Non-Govt. Agencies	01-10-2019 00:00:00	23-10-2019 00:00:00	23	1	0	1	No			No	

Courses on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period 2018-19

Title of Course/Subject Offered	Program Theme	Type of Course	Level of Course	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Enrolment Number	Total Number of Students Completed	Total Numbers of Contact Hours of Course
Faculty Development Program on Entrepreneurship	Entrepreneurship/Startup	FDP	Short Term Certificate Course	21-01-2019 00:00:00	02-02-2019 00:00:00	13	Offline	18	18	104
Faculty Development Program on Entrepreneurship	Entrepreneurship/Startup	FDP	Short Term Certificate Course	13-05-2019 00:00:00	24-05-2019 00:00:00	12	Offline	18	18	96
Entrepreneurship Development Programme	Entrepreneurship/Startup	EDP	Short Term Certificate Course	26-10-2018 00:00:00	28-11-2018 00:00:00	34	Offline	24	24	204
Entrepreneurship Development Programme	Entrepreneurship/Startup	EDP	Short Term Certificate Course	02-04-2018 00:00:00	03-05-2018 00:00:00	32	Offline	20	20	192
Technology based Entrepreneurship Development Program	Entrepreneurship/Startup	EDP	Short Term Certificate Course	04-03-2019 00:00:00	13-04-2019 00:00:00	41	Offline	15	15	328
Technology based Entrepreneurship Development Program	Entrepreneurship/Startup	EDP	Short Term Certificate Course	30-05-2018 00:00:00	11-07-2018 00:00:00	43	Offline	17	17	344
Technology based Entrepreneurship Development Program	Entrepreneurship/Startup	EDP	Short Term Certificate Course	13-06-2018 00:00:00	17-08-2018 00:00:00	66	Offline	15	15	396

Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

Name of Centre	Type of Facility	Year of Facility Creation	Facility Location / Address	Facility Incharge	Carpet Area of Facility	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation & Incubation Centre/Facilities?	Had institute Generated Income either from Services Offered by Pre-Incubation & Incubation Centre/Facilities?
Nanotechnology Research Innovation and Incubation Centre (NRIIC)	Incubation Unit	2015	Nanotechnology Research Innovation and Incubation Centre (NRIIC), I BLOCK, PSG College of Technology Coimbatore - 641 004 Tamil Nadu, INDIA	Facility Incharge Name  Facility Incharge Email  Facility Incharge Email  Facility Incharge Phone  Pr.S.P.Su riyarajn bt@gmail com  88706979  86	15000 Sq. Ft.	Annual Capital Expenditure (In Rupees)  Annual Operational Expenditure (In Rupees)	No
PSG-STEP:BioNEST	Incubation Unit	2017	J Block IV floor, PSG College of Technology, Coimbatore	Facility Incharge Name  Facility Incharge Email  Facility Incharge Email  Facility Incharge Phone  Pacility Step@ps gtech.edu  99524272 32	6170 Sq. Ft.	Annual Capital Expenditure (In Rupees)  Annual Operational Expenditure (In Rupees)	No

# Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

PSG-STEP	Research Park/Innovation Park	1998	PSG College of Technology, Coimbatore 641004	Facility Incharge Name Suresh Kumar  Facility Incharge Email Step@ps gtech.edu  99524272 32  Facility Incharge Phone	1000 Sq. Ft.	Yes  Annual Capital 100000 Expenditure (In Rupees)  50000  Annual Operational Expenditure (In Rupees)	Total Annual Income from Training and Skill Development Services (In Rupees)  Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)  Total Annual Income from Office Space and Rental Services to Startups/Innovators (In Rupees)
PSG-STEP DST PRAYAS Centre	Pre-Incubation Centre	2017	PSG-STEP, PSG College of Technology, Coimbatore	Facility Incharge Name Step@ps gtech.edu Facility Incharge Email Step@ps gtech.edu Facility Incharge Phone Step@ps 32	5500 Sq. Ft.	Yes  Annual Capital Expenditure (In Rupees)  Annual Operational Expenditure (In Rupees)	No
PSG-STEP:NIDHI-CoE in Advanced Technologies	Centre of Excellence with Advance Tools & Equipment	2018	PSG iTech, Neelambur	Facility Incharge Name D Manikand an Step@ps gtech.edu Email 99524272 32  Facility Incharge Email 99524272 32	52000 Sq. Ft.	Yes  Annual Capital Expenditure (In Rupees)  Annual Operational Expenditure (In Rupees)	Yes  Total Annual Income from Training and Skill Development Services (In Rupees)  Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)  Total Annual Income from Office Space and Rental Services to Startups/Innovators (In Rupees)

## Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

PSG-STEP: IT & Electronics Incubation Centre	Incubation Unit	1998	PSG College of Technology, Coimbatore	Facility Incharge	Dr Suresh	20000 Sq. Ft.	Ye	3	Yes	
			Combatore	Name	Kumar		Annual Capital Expenditure (In	100000	Total Annual Income from Training and	0
				Facility Incharge	step@ps gtech.edu		Rupees)		Skill Development Services (In Rupees)	
				Email				50000	Total Annual Income	200000
					99524272 32				from (Technical and Business) Mentoring	200000
				Facility			Annual Operational		Services (In Rupees)	
				Incharge Phone			Expenditure (In Rupees)		Total Annual Income from Office Space and Rental Services	0
									to Start- ups/Innovators (In Rupees)	

Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus

Name of Centre	Source of Grant / Fund	Agency Name	Agency Type	Had Received Grants / Funds by Pre- Incubation & Incubation Centre / Facilities exists in Campus?	Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)
PSG-STEP:BioNEST	Funding Agency	Biotechnology Industry Research Assistance Council BIRAC	Govt. Agency (Central)	Yes	19520000
PSG-STEP	Funding Agency	NIDHI-EIR, Department of Science and Technology	Govt. Agency (Central)	Yes	1980000
PSG-STEP	Funding Agency	NIDHI-PRAYAS, Department of Science and Technology	Govt. Agency (Central)	Yes	80000000
PSG-STEP	Funding Agency	NIDHI-SSS, Department of Science and Technology	Govt. Agency (Central)	Yes	20000000

Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Innovation / Project Started	Type of Innovation	Current Status Pre- Incubation/Incubati on Support Received	Current Status of Innovation, Stage of TRL it has reached	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2018-19	Had the Idea/Prototype/Inno vations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Inno vations for the pre- incubation/incubatio n support and the services offered by Pre- incubation/incubatio n or institute during the financial period 2018-19?
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# Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

Water Coin 360000 NIDHI- EIR	PSG-STEP	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovator/Entrepren eur External to Institute	2018	Non-IP / Non- Patented Technology		Still Under Development Process	TRL 2: formulat Concept applicati been for	and on have	Yes  Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees)	No		No
	Principal Inn	ovator											
		Name		Туре			Gender			Email		Со	ntact
	Chandan Jain			Innovator/Entrepreneu Institute	ır External to	Male			nceindia.wa	ater@gmail.com		9940538469	
Application of Nano Starch Based Edible Coating in Extending the Shelf Life Fruits and Vegetables 360000 NIDHI EIR	PSG-STEP	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovator/Entrepren eur External to Institute	2018	Non-IP / Non- Patented Technology		Still Under Development Process	TRL 2: formulat Concept applicati been for	and on have	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees)	No		No
	Principal Inn	ovator											
		Name		Туре			Gender			Email		Со	ntact
	Shanmuga Sundar			Innovator/Entrepreneu Institute	ır External to	Male			shyamjaya	m51@gmail.com		9994077208	
Enzyme Based Natural or Chemical Free Instant Idly BatterMix Powder 360000 NIDHI EIR	PSG-STEP	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovator/Entrepren eur External to Institute	2018	Non-IP / Non-Patented Technology		Still Under Development Process	TRL 2: formulat Concept applicati been for	and on have	Yes  Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees)	No		No

# Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

	Principal Innovator											
	Name			Type Innovator/Entrepreneur External to Institute		Gender		Email mail2btkarthik@gmail.com			Contact 7667852226	
	Karthikeyan		76678522									
Polypropylene Wire Sealing and Cutting Automation	PSG-STEP	TRL 2 : Technology formulation. Concept and application have been formulated.	Alumni Entrepreneur	2018	Non-IP / Non- Patented Technology		Still Under Development Process	formulati Concept	Technology ion. and on have mulated.	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees)	No	No
	Principal Innovator											
	Name			Туре		Gender		Email			Contact	
	Ram Prasad D S		Alumni Entrepreneur		Male			ramprasad1803@gmail.com		99942804	9994280440	
Bioconjucated Nano Theranostic Delivery System for Alzheimers Diesease 970000 NIDHI PRAYAS	PSG-STEP	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovator/Entrepren eur External to Institute	2018	Non-IP / Non-Patented Technology		Still Under Development Process	prototype	nent ("ugly"	Yes  Total Seed Grant/Fund Amount Disbursed to above Idea//Prototype/I nnovations Development by Centre (In Rupees)	No	No
	Principal Innovator											
	Name			Туре		Gender		Email			Contact	
	Muthukumar Amirthalingam			Innovator/Entrepreneu Institute	ur External to	Male	muthu77in@gmail.com			@gmail.com	6360491782	

Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

Endotracheal Tube Detector with Intubating Video Endoscope 935000 NIDHI PRAYAS	prototype built in a lea		Innovator/Entrepren eur External to Institute	2018	Non-IP / Non- Patented Technology		Still Under Development Process	TRL 4: prototyp laborato environr prototyp	Small scale e built in a ry nent ("ugly" e).	Yes  Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees)	No	No	
	Principal Inn	ovator											
	Name			Туре			Gender		Email			Contact	
	Christopher M			Innovator/Entrepreneur External to Institute		Male		dr.chris.judith@gmail.com		9443412873	9443412873		
Integrated Cutting Floor Optimization Solution for Leather Product Manufacturing Industries 960000 NIDHI PRAYAS	PSG-STEP	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovator/Entrepren eur External to Institute	2018	Non-IP / Non- Patented Technology		Still Under Development Process	prototyp	Small scale e built in a ry nent ("ugly" e).	Yes  Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees)	No	No	
	Principal Inn	ovator											
	Name			Туре			Gender		Email			Contact	
Ahamed Muqthar K				Innovator/Entrepreneur External to Institute		Male		muqthar@augtra.com		9994889321	9994889321		

# Start-ups have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

No Data Filed!

**Co-Incubation Partnership** 

CO-Incubation Fartnership											
Type of Partnership Partnership Institute Name		Type of Support Offered	No. of Student Projects/ Ideas / Innovation / Startups Supported	Date of MOU / Agreement Signed on							
Incubation Services/Support Extended to Other Institute	NIL	Pre-incubation	0	02-10-2019							

**Technology Commercialization / Transfer** 

Name of Technology Licenced / Transferred / Commercialized	Technology Type	Type of Transfer	Patent / Licence Number	Patent / Licence Holder		Centre / Department of Origin of Licence	Licence Transferred to		Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Total Annual Income Received from Technology Transfer/Licensing (In Rupees)
DESIGN AND DEVELOPMENT OF AUTOMATIC POSITIVE AIRWAY PRESSURE DEVICE	Non-IP/Non- Patented Technology	One-time transfer/Licens ing	0	Holder name	Priya	Biomedical Engineering	Licence Transferred to	Industry	Yes	57065
				(Institute Co- ownership is Must)  Contact number of license holder	791818444		Name of Industry/Start- up/Agency Received License/Techno logy	ROOTS Group of Companies		
					m.bme@ps tech.ac.in		Address of Agency	Coimbatore		
	Gend	Female Gender			Contact Number of Agency	0422433033 0				
						Email of Agency	bharath@roo ts.co.in			

## **Declaration**

To, The ARIIA Committee MHRD's Innovation Cell New Delhi

## Joint Declaration by the Head of the Institute and Nodal Officer

#### Dear Sir,

Herewith, myself Dr. K Prakasan (Head of Institute) and Dr. K Suresh Kumar (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

Thank you

The Head of Institute

Dr. K Prakasan

Head of the Institution,

PSG College of Technology,

Coimbatore, Tamil Nadu

Nodal officer

16.40.2019

Dr. K Suresh Kumar Nodal Officer,

PSG College of Technology, Coimbatore, Tamil Nadu

Responsibility for accuracy and authenticity of data lies with the concerned institution.