



NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI
TAMIL NADU – 620015



1. Name in Full (Capital Letters) : Dr G. SWAMINATHAN Gender : Male

2. Date of Birth : 26.04.1961 Age: 58

3. Marital Status: Married

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6. (a) Educational Qualifications:

Degree	Discipline	University	Class	% of marks/CGPA	Year of passing
Bachelor's Degree	Civil Engineering	Anna University, Chennai.	First	67.62(Overall) 70.88(In Branch of Study)	1984
Master's Degree	Environmental Engineering	Anna University , Chennai.	First class with distinction	80.12	1987
Ph.D. Degree	Environmental Engineering	IIT Madras	-	-	2000
Others (if any)	-	-	-	-	-

(b) GATE Score - Gate Scholar while pursuing M.E. All India Rank, Currently no record available, Year 1985

7. Details of PG/Ph.D. thesis:

Degree	Title of the thesis
P.G.	Management Information System For TWAD Board (Urban Water Supply schemes in operation)
Ph.D.	Studies on treatment of High Concentration Toxic Wastewater using Anaerobic RBC and Aerobic RBC

8. Professional Experience (Teaching/Research/Industrial) in chronological order up to the present post

Organization	Designation	From	To	Pay Details (Pay Scale, Last Pay Drawn)
Government of Tamil Nadu	Assistant Engineer - Public Works Department, Govt. Of Tamil Nadu	30.08.1984	15.07.1985	Rs. 1060 + D.A.
Auroservice D' Auroville Trust	Public Health Engineer	25.05.1987	02.04.1988	Rs.2000 consolidated
REC Tiruchirappalli	Lecturer	06.04.1988	06.04.1994	Rs. 2200-75-2800-100-4000
REC Tiruchirappalli	Lecturer - Senior scale	06.04.1994	06.04.1999	Rs. 10000-325-15200
NIT Tiruchirappalli	Assistant Professor	06.04.1999	01.07.2007	Rs. 12000-420-18300
NIT Tiruchirappalli	Professor	01.07.2007	01.12.2017	Rs. 37400-67000 with AGP 10000
NIT Tiruchirappalli	Professor	01.12.2017	Till date	Rs. 195700+ DA Pay level 14 A(8) (7 Th pay commission revised scale)

9 (a) Externally Sponsored R&D Projects

Sl. No.	Title of the Project	Funding Agency	Amount in Rs.	Duration		Responsibility Only PI/ PI/Co-PI	Status (Completed / Ongoing)
				From	To		
1.	Survey of NC Habitation	RGNDW in Ministry of Rural Development. Govt. of India (L.Dis.No.18641/94/A1 Dt.5/5/94)	0.79 Lakhs	1994	1995	Co PI	Completed
2	Remote Sensing application in interpretation and monitoring of ambient air quality	MHRD - (DPAD/Thrust Areas/2001 Dt.09.04.2002)	Rs. 8.0 Lakhs	2002	2004	PI	Completed
3	Engineered study on solid waste management for systems for resource and energy recovery	MHRD - (DPAD/Thrust Areas/2002-03 Dt.12.05.2003)	Rs. 13.0 Lakhs	2003	2005	Co PI	Completed
4	Safe disposal of BRAHMOS missile canister after missile firing	DRDO - BrahMos	DRDO - BrahMos	2014	2016	PI	Completed Extension studies on going

9 (b) Patent Granted

S. No.	Title	Patent Number	National/ International	Date of Patent
1.	Composition of Micro silica in solid waste leachate	Dean(R&C) note dated 24.07.2018 and Director's approval(The service provider has to formally file the patent.	National	

10. Consultancy Projects

Sl. No.	Title of the Project	Name of Organization	Amount in Rs.	Duration		Responsibility Only PI/As PI/As Co PI	Status (Completed/ Ongoing)
				From	To		
1.	Construction of retaining wall and channel	Pudukottai Municipality corporation	9.85 Lacs	13808/2015/EI-dated 02-05-2017		PI	Completed
2.	Water bodies improvement-Design of embankment	Nagapattinam Municipality	2.92 Lacs	0233/2016/E1 dated 02-05-2017		PI	Completed

11. Ph.D. Completed

Sl. No.	Name of the Ph D Scholar	Thesis Title	Responsibility As Sole Supervisor/As Main Supervisor/As Co Supervisor	Year & Month of Completion	Status (Completed/ Submitted)
1.	D. Siva kumar	Studies on contaminant transport of sugarcane effluent through porous soil medium	Supervisor	August.2008	Completed
2.	R.Sowmeyan	Performance evaluation of inverse anaerobic fluidized bed reactor in treating high strength organic wastewater	Supervisor	November 2008	Completed
3	G. Venkatesan	Comparative studies on clay liner with and without microsilica, in permeation of municipal solid waste leachate	Supervisor	February 2010	Completed
4	R. Jayanthi	Ground water contamination assessment in a tannery belt	Co Supervisor	November2010	Completed
5	PVS Giribabu	Synergetic Degradation of a Reactive Dye Acid Red1 by Simultaneous	Supervisor	April 2017	Completed

		adsorption and Photocatalysis Using different Fly Ashes Under UV-C Light and Solar Light			
6	Aswin Sriram G.	Removal of Rose Bengal dye from aqueous solution using activated carbon and biosorbent	Supervisor	June 2019	Completed

12. Journal Papers in SCI/Scopus:

(i) As first author/Main supervisor

S. No	Title of the Paper	Name of the Author(s)	Journal Name	Vol, No, Page No	Year
1	Performance of inverse anaerobic fluidized bed reactor for treating high strength organic wastewater during start-up phase	Sowmeyan, R. and Swaminathan, G.	Bioresource Technology	99(14), pp. 6280–6284. doi: 10.1016/j.biortech.2007.12.001.	2008
2	Evaluation of inverse anaerobic fluidized bed reactor for treating high strength organic wastewater	Sowmeyan, R. and Swaminathan, G.	Bioresource Technology	99(9), pp. 3877–3880. doi: 10.1016/j.biortech.2007.08.021.	2008
3	Physico-chemical characteristic of ground water in and around sugar industry-A case study	Sivakumar, D., Swaminathan, G	Indian Journal of Environmental Protection		2008
4	Fuzzy information processing for assessment of groundwater quality	Kumar, N.V., Mathew, S., Swaminathan, G	International Journal of Soft Computing		2008
5	Review of chloride and sulphate attenuation in ground water nearby solid-waste landfill sites	Venkatesan, G. and Swaminathan, G.	Journal of Environmental Engineering and Landscape Management	17(1), pp. 1–7. doi: 10.3846/1648-6897.2009.17.1a-Ig.	2009
6	Assessment of microsilica as a	Venkatesan, G., Swaminathan, G.	International Journal of	10(2/3), p. 321. doi:	2012

	value-added material for municipal solid waste clay liner system	and Srihari, V	Environment and Waste Management	10.1504/IJEW M.2012.048321 .	
7	Photo degradation of reactive dye Acid Red 1 under UV-C radiation using fly ash from different thermal power plants	Giribabu, P. V. S. and Swaminathan, G.	International Journal of Earth Sciences and Engineering		2016
8	Synergetic degradation of reactive dye Acid Red 1 by cobalt-doped lignite fly ash	Giribabu, P. V. S. and Swaminathan, G.	Desalination and Water Treatment	57(36), pp. 16955–16962. doi: 10.1080/19443994.2015.1082509	2016
9	Comparative Study on Synergetic Degradation of a Reactive Dye Using Different Types of Fly Ash in Combined Adsorption and Photocatalysis	Giribabu, P. V. S. and Swaminathan, G.	Journal of The Institution of Engineers		2016
10	Pyrolysis of Musa balbisiana flower petal using thermogravimetric studies	Sriram, A., G. Swaminathan	Bioresource. Technology.	265, 236–246.	2018
11	Utilization of dye loaded activated carbon as a potential alternative fuel source: A feasibility study through thermogravimetric and calorific studies	Sriram, A., G. Swaminathan	Environmental Science and Pollution Research	DOI: 10.1007/s11356-018-3279-1	2018
12	Removal of Rose Bengal Dye Using Low-Cost Adsorbent Material	Sriram, A., G. Swaminathan	Lecture Notes in Civil Engineering, Springer, Singapore	vol 9, DOI:10.1007/978-981-10-8016-6_85	2018
13	Removal of Rose Bengal dye from aqueous solutions using chitosan coated activated carbon prepared from Prosopis juliflora	Sriram, A., G. Swaminathan	Indian Journal of Environmental Protection	38, 827-835	2018

(ii) As co-authors/Co-supervisor

S. No	Title of the Paper	Name of the Author(s)	Journal Name	Vol, No, Page No	Year
1	Biodecolorization of a persistent organic dye from model wastewater using <i>Curvularia</i> spp	Senthilkumar, S., Swaminathan, G. et al.	Desalination and Water Treatment	46(1–3), pp. 272–277. doi: 10.1080/19443994.2012.677505.	2012
2	Box Behnken design based optimization of solar induced photo catalytic decolourization of textile dye effluent	Senthilkumar, S., Swaminathan, G. et al.	Central European Journal of Engineering		2013
3	Degradation potential of free and immobilized cells of white rot fungus <i>Phanerochaete chrysosporium</i> on synthetic dyes	Senthilkumar, S., Swaminathan, G. et al.	International Journal of ChemTech Research		2013
4	Removal of Copper Using Clay Admixed with Quarry Fines as Landfill Liners	Rajagopalan V, Venkatesan. G and G. Swaminathan.	Polish Journal of Environmental Studies	Vol. 25, No. 1 (2016), 377-384. (DOI: 10.15244/pjoes/59500, ISBN: 1230-1485	2016
5	Experimental studies on adsorption of Chromium (VI) and Arsenic (III) using residue red mud in effective manner, Ecology	Narayanan, S.L., Venkatesan, G., Swaminathan, G.	Environment and Conservation	Vol 23, Sept. Suppl. Issue 2017; Page No.(32-40)	2017
6	Metaheuristic-based approach for state and process parameter prediction using hybrid grey wolf optimization	Sankaranarayanan, S., Sivakumaran, N., Swaminathan, G., Radhakrishnan, T.K	Asia-Pacific Journal of Chemical Engineering		2018
7	Unforeseen data estimation in water distribution system	Sankaranarayanan, S., Sivakumaran, N., Swaminathan, G., Radhakrishnan, T.K	CSI Transactions on ICT	Volume 7, Issue 2, pp 153–159	2019
8	Water hammer vibrations in pressurized water distribution system:	Sankaranarayanan, S., Sivakumaran, N., Swaminathan, G.,	Asia-Pacific Journal of Chemical Engineering		2019

	Conceptual development of dynamic model and validation	Radhakrishnan, T.K			
9	Missing data estimation and IoT-based flyby monitoring of a water distribution system: Conceptual and experimental validation	Sankaranarayanan, S., Sivakumaran, N., Swaminathan, G., Radhakrishnan, T.K	International journal of Communication Systems		2019

13. Conference Papers indexed in SCI/Scopus/Web of Science Conference /any internally renowned conference

(i) As First author/ Main supervisor

S. No	Name of the Author(s)	Title of the Paper	Title of the Proceedings	Page No	Conference Theme	Venue	Date & Year
1	Aswin Sriram and Ganapathiraman Swaminathan	Removal Rose Bengal dye using low cost adsorbent material,	Global Civil Engineering Conference	pp 1223 - 1234	Civil Infrastructure	Malaysia	July 2017

(ii) As co-authors/ Co-supervisor

S. No	Name of the Author(s)	Title of the Paper	Title of the Proceedings	Page No	Conference Theme	Venue	Date & Year
1	Sankaranarayanan, S Swaminathan, G. et al.	A Novel Hybridized Grey Wolf Optimzation for a Cost Optimal Design of Water Distribution Network	Computing Conference	pp. 1–10.	Computing	London	July 2017
2	Sankaranarayanan, S Swaminathan, G. et al.	Soft sensor based estimation of process parameters and states with Hybridized Grey Wolf Optimizer	Proceedings of the American Control Conference	pp. 1892–1897.	Infrastructure development	USA	2017

14. Administrative Activities:

HOD, Dean, Chief Warden, Prof In-Charge(T&P), Advisor (Estate), CVO, PI (Exam), TEQIP (Coordinator)

S. No	Post Held	Department/ Centre/Institute	Duration		Total Period (in Semesters)
			From	To	
1	TEQIP- Nodal Officer	TEQIP	07.05.2008	24.1.2010	3
2	TEQIP – Coordinator	TEQIP	25.01.2010	21.01.2014	8
3	HOD	CEESAT	30.01.2012	31.12.2014	6
4	Dean	Planning and development	18.09.2015	04.10.2017	4

15. Warden, Asst. Warden, Asso. Dean, Chairman/Convener institute academic committee, faculty In Charge Computer Center/IT Services/Library/Admission/Student activities and other institution activities

S. No	Post Held	Department/ Centre/Institute	Duration		Total Period (in Semesters)
			From	To	
1	Registrar (Officiating)	Office Administration	07.03.2012	13.08.2015	7
2	Coordinator	Legal Cell	01.02.2016	30.07.2018	5

16. Chairman and Convener of different standing committee and special committee (ex officio status will not be considered). Faculty in charges (each for one yr. duration) of different units or equivalent

S. No	Post Held	Faculty/Department/ Centre/Institute/Office	Duration		Total Period (in Semesters)
			From	To	
1	Coordinator	NIT Puducherry	04.02.2011	22.12.2011	2
2	Centre in charge	Central counselling Board, NIT Puducherry	01.06.2011	22.12.2011	2

17. Departmental activities identified by HODs like lab in charge, or department level committee for a min period of 1 yr.

S. No	Post Held	Faculty/Department/ Centre/Institute/Office	Duration		Total Period (in Semesters)
			From	To	
1	Chairman - M.Tech Structural Engineering - III semester	Department of Civil Engineering	Jul 2008	Dec 2008	1
2	Chairman - B.Tech Civil Engineering - VI semester	Department of Civil Engineering	Jan 2011	June 2011	1
3	Chairman - M.Tech Structural Engineering - IV semester	Department of Civil Engineering	Jan 2012	June 2012	1
4	Chairman - B.Tech Civil Engineering - VII semester	Department of Civil Engineering	Jul 2015	Dec 2015	1
5	Chairman - B.Tech Civil Engineering - VIII semester	Department of Civil Engineering	Jan 2016	Jun 2016	1
6	Chairman - M.Tech Transportation Engineering - I semester	Department of Civil Engineering	Jul 2016	Dec 2016	1
7	Chairman - M.Tech Transportation Engineering - II semester	Department of Civil Engineering	Jan 2017	Jun 2017	1
8	Chairman - M.Tech Structural Engineering - I semester	Department of Civil Engineering	July 2012	Dec 2012	1
9	Chairman - M.Tech Structural Engineering - II semester	Department of Civil Engineering	Jan 2013	June 2013	1
10	Chairman - M.Tech Construction Technology - III semester	Department of Civil Engineering	Jul 2013	Dec 2013	1
11	Chairman - M.Tech Construction Technology - IV	Department of Civil Engineering	Jan 2018	June 2018	1

	semester				
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18. Workshop/FDP/Short term courses of min 05 working days duration offered as coordinator or convener

Workshop/FDP/Short term courses/Summer/Winter Schools

S. No	Title of Activity	Level (National/ International)	Role	Duration		Venue
				From	To	
1	Six day workshop on “Waste Management”	National	Coordinator	09.05.2016	14.05.2016	DEE -NITT
2	Five day workshop on “Waste Management”	National	Coordinator	24.09.2018	28.09.2018	DEE -NITT
3.	AICTE-Margdarshan sponsored FDP on “Applications of soft computing tools in Disaster Modelling”	National	Coordinator	29.07.2019	02.08.2019	Department of Civil Engineering-NITT

19. For conducting national programs like GIAN etc. as course coordinator

S. No	Programme name	Title	Role	Collaborator Details	Duration		Number of Weeks
					From	To	
1	GIAN	Advanced Materials for Renewable Energy Challenges	Course Coordinator	MHRD	14.11.2016	21.11.2016	1

20. National/international Conference organized as Chairman/Secretary

S. No	Role	Conference Name	Level (National/International)	Duration		Venue
				From	To	
1	Coordinator	International conference on Disaster Mitigation & Management for sustainable development and Risk Reduction	International	22.02.2016	24.02.2016	NIT - Trichy

21. Length of service over and above the relevant minimum teaching experience required for a given cadre

Last Promotion Date		
01.07.2007	Serving as a Professor (HAG) since March 2019	

22. Establishment of New Lab(s)

S. No	Lab Name	UG/PG	Branch	Year of Establishment
1	Environmental Engineering Laboratory	UG/PG	Civil Engineering	1989(Undr IIT REC Network

23. Significant Outreach Institute Activities

S. No	Name of the Activity	Repair and rehabilitation of 5,6 and 7 Rampart wall of Arulmigu Sri Ranganathaswamy Temple, Srirangam
1	Role	Committee member
	Place & Date	Sri Ranganathaswamy Temple, Srirangam, GO No. 93 dated 17.05.2013
	Any other Details	Represented NIT – Tiruchirappalli as an expert member in Rehabilitating Rampart wall, Total project outlet – 33 crores
2	Name of the Activity	All India Workshop on National Building code of India 2005
	Role	Convener
	Place & Date	Tiruchirappalli, 24.01.2009
	Any other Details	Promotion of Revised building code NBC 2005 organized by IEI – Tiruchirappalli local centre
3	Name of the Activity	Counseling for school children about higher Education
	Role	Counselor
	Place & Date	Tiruchirappalli, 05.04.2015
	Any other Details	Program organized by Dinamalar Newspaper in the name Vazhikaatti
4	Name of the Activity	Study on maintaining sanctity and serenity of Theerthams in Arulmigu Sri Ramanathaswami Temple in Rameshwaram
	Role	Expert Member, Guiding students for the project
	Place & Date	Rameshwaram, 08.02.2014
	Any other Details	The Madurai Bench of Hon'ble high court directed NIT – Tiruchirappalli to study the system and offer recommendation vide Interim judgment delivered on 23.01.2014 and 10.02.2014, WP (MD) no. 6793 and 13124 of 2012
5	Name of the Activity	Sub-committee meeting of All India board of post-graduate education and Research engineering and Technology
	Role	Expert Member,
	Place & Date	New Delhi, 12.05.2017

	Any other Details	AICTE – constituted Board
6	Name of the Activity	To prepare Gap analysis between curriculum or professional bodies and AICTE model curriculum
	Role	Expert Member
	Place & Date	New Delhi, 11.09.2017
	Any other Details	-
7	Name of the Activity	Outside Expert member for academic Council in Government College of Technology - Coimbatore
	Role	Expert member
	Place & Date	Coimbatore, 18.08.2014 to till date
	Any other Details	-
8	Name of the Activity	Scrutiny committee for short-listing candidates for faculty recruitment at NIT Nagaland
	Role	Chairman
	Place & Date	Nagaland – 14.12.2018 to till date
	Any other Details	-

24. Fellow in Institution of Engineers(India) F 114028-7

25. Rekha Nandi and Bhupesh Nandi award for the best paper published in IEI journal by Institution of Engineers.

26. Won “Best Engineer award- Year 2019” by Institution of Engineers(India).