Dr. K Nagesha

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#93, Rainbow layout, Vidyaranyapura, Bengalure-560097

Work Experience

Assistant Professor	MSRIT, Bengalure-560054	Aug 2013- Jul 2014
Assistant Professor	BMSIT, Bengalure-560064	Jan 2013- Aug 2013
Assistant Professor	SRSIT, Bengalure-562157	Jun 2012- Jan 2013
Mechanical Engineer	Karnataka Power Corporation Ltd (Government Undertaking) Shaktinagar-584170	Mar 2004- Jun 2008
Mechanical Engineer	Mysore Paper Mills Ltd (Public Sector) Bhadravathi-577302	Jan 1998- Feb 2004

Academic Qualification

Ph.D. (Thermal)	Indian Institute of Technology	CGPA: 8.0
September 2020	Madras, Chennai-600036	*NIRF Rank 1*
M.Tech (Energy Science)	Indian Institute of Technology	CGPA: 8.79
August 2010	Bombay, Mumbai-400076	*QS World University Rank 44th*
BE (Mechanical Engineering)	Mysore University	First class with Distinction
February 1998	Hassan-573201	Passed with 70.25%
Diploma (Mechanical Engineering)	VISSJ Polytechnique	First class
August 1993	Bhadravathi-577301	Passed with 73.9%
10th SSLC	Basaveswara High School	Passed with 88%
May 1990	Arebilachi-577238	Science, Maths, Social

Academic Achievement

GATE:2008 (Mechanical engineering) Percentile: 98.12 All India Rank: 340

Secured MHRD Scholarship of Rs. 21 Lakhs from Government of India in IIT Madras

Secured MHRD Scholarship of Rs. 2.1 Lakhs from Government of India in IIT Bombay

Diploma (Mechanical engineering) Secured 6th Rank to Karnataka state

Research Publication in Journals

Nagesha, K., K. Srinivasan, and T. Sundararajan. "Enhancement of jet impingement heat transfer using surface roughness elements at different heat inputs." Experimental Thermal and Fluid Science 112 (2020): 109995. Impact Factor: 3.444

Nagesha, K., Srinivasan, K. & Sundararajan, T. Heat transfer characteristics of single circular jet impinging on a flat surface with a protrusion. Heat Mass Transfer, 56(6), 1901–1920 (2020). Impact Factor: 1.867. SCOPUS ID: 57219287315

Ph.D Thesis

Thesis Advisors: Prof. T Sundararajan Prof. K Srinivasan IIT Madras

Title: Enhancement of jet impingement heat transfer using small surface roughness elements

Master Thesis

Project Advisor: Prof. Rajendra P Vedula IIT Bombay

Title: Fluid flow measurements and computations in swirling flows specific to tangentially fired boilers

Mini course project and Seminars

Determination of length of an aluminum rod by temperature measurement using K-type Thermocouple,

Flow boiling in mini/micro channels Solar concentrators for power generation

Research Skills

Experimental techniques in Heat Transfer and Fluid Dynamics: Temperature measurement using thermocouples and data lagger. Fluid flow measurement using digital manometer, Pressure calibrator, Hot wire anemometer. Seven-hole probe and Micro-manometer.

Design and development of jet impingement setup and impingement plate with heater. Design and fabrication of five-hole probe calibration Test rig. Design and fabrication of Tangentially fired boiler furnace arrangement with blower.

Numerical Simulation using Ansys Fluent: 3D Modeling using ICEM CFD, Conjugate heat transfer technique. Analysis of Swirl flow field in Tangential fired furnace.

Professional Experience and Workshops

Exposure of 210 MW Thermal power plant and Co-generation power plant in processing industry. Served as Mechanical engineer in operation and maintenance of high-pressure boiler and steam turbine. Carried out preventive and breakdown maintenance of power plant equipment. Qualified Boiler Operation Engineer Proficiency exam.
Power engineer training undergone in National Power Training Institute- Neyveli.
(Under the Ministry of Power, Government of India.)
Indo-German Workshop on Modeling and Measurement techniques for micro-scale flows.

Academic Exposure

Thermal stream subjects taught to BE Students, Presentation and communication skills.

Courses studied

Advanced heat and mass transfer	Applied thermodynamics
Boiling and condensation heat transfer	Convective heat transfer
Advanced fluid dynamics	Incompressible fluid flow
Renewable energy	Hydrogen Energy

References

Dr. Sundararajan. T	Department of Mechanical Engineering TDCE Lab, IIT Madras, Chennai- 600036	tsundar@iitm.ac.in Ph:(+91) 44 2257 4683
Dr. Srinivasan. K.	Department of Mechanical Engineering TDCE Lab, IIT Madras, Chennai- 600036	ksri@iitm.ac.in Ph:(+91) 44 2257 4703
Dr.Sateesh Gedupudi	Department of Mechanical Engineering HTTP Lab, IIT Madras, Chennai- 600036	sateeshg@iitm.ac.in Ph:(+91) 44-2257 4721
Dr.Rajendra P Vedula	Department of Mechanical Engineering THTF, IIT Bombay, Mumbai- 400076	rpv@me.iitb.ac.in Ph:(+91) 22 2576 7547

I have 6 years of Academic research in Top IITs with NIRF Ranking 1 and 4, 2 years of Teaching and 9 years of Industrial experience. I am interested in Research to update and enhance my skills and knowledge. I have exposure to writing and publishing international journal paper Having gained knowledge and experience, I would like to serve the student community. I an interested in Teaching. I kindly request you to give an opportunity in your esteemed organization.

Date: 21st January 2021