

CURRICULUM VITAE

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CAREER VISION

To enhance and fine tune my skills on teaching, research and consultancy and contribute to the development of students and healthy society.

EDUCATION

Program	Institution
Ph. D in Geotechnical Engineering	Indian Institute of Technology Madras and National University of Singapore (IITM-NUS)
M. Tech in Geotechnical Engineering	Indian Institute of Technology Madras, Chennai
B.E in Civil Engineering	Mepco Schlenk Engg College, Sivakasi (Affiliated To Anna University)
HSC	Virudhunagar Hindu Nadar Higher Secondary School, Madurai
SSLC	Seventh Day Adventist Matriculation Higher Secondary School, Madurai

EMPLOYMENT

Employer	Position Held
NITK, Surathkal	Assistant Professor - till date
BITS Pilani - Dubai Campus	Assistant Professor
NIT Andhrapradesh	Assistant Professor (Adhoc)
Dept of Civil Engg, IIT Madras	Senior Project Officer
Dept of Civil Engg, IIT Madras	Senior Project Officer

RESEARCH INTEREST

- Experimental Geotechniques
- Soft Clay Engineering.
- Ground Improvement.
- Physical Modelling (1-g and Centrifuge).
- Numerical Modelling
- Geosynthetics and its applications

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LIST OF PUBLICATIONS

INTERNATIONAL JOURNAL (6)

1. **Raheena, M., G. Sridhar and R. G. Robinson**, (2019) Simplified Apparatus for CRS Consolidation Testing of Soils. *Geotechnical Testing Journal, ASTM*, **42**(3), 817-828. (SCI)
2. **Sridhar, G., R. G. Robinson and K. Rajagopal** (2018) Horizontal Coefficient of Consolidation from Inward and Outward Flow Tests. *Proceedings of the Institution of Civil Engineers - Ground Improvement* **171**(3), 159-166.. (Scopus)
3. **Sridhar, G., R. G. Robinson and K. Rajagopal** (2016) Properties of Soil after Surcharge or Vacuum Preloading. *Proceedings of the Institution of Civil Engineers - Ground Improvement*, **169**(3), 217-230. (Scopus)
4. **Sridhar, G., R. G. Robinson, K. Rajagopal and R. Radhakrishnan** (2015) Comparative study on horizontal coefficient of consolidation determined using Rowe and conventional consolidation cell. *International Journal of Geotechnical Engineering*, **9**(4), 388-402. (Scopus)
5. **Sridhar, G. and R. G. Robinson** (2013) Flexible wall permeameter to measure the hydraulic conductivity of soils in horizontal direction. *Geotechnical Testing Journal, ASTM*, **36**(3), 442-447. (SCI)
6. **Sridhar, G. and R. G. Robinson** (2011) Determination of radial coefficient of consolidation using log t method. *International Journal of Geotechnical Engineering*, **5**(4), 373-381. (Scopus)

NATIONAL JOURNAL (2)

1. **Raheena, M., G. Sridhar and R. G. Robinson**, (2019) Constant Rate of Strain Consolidation Testing using Conventional Fixed Ring Consolidation Cell. *Indian Geotechnical Journal*, **49**(2), 141-150. (Scopus)
2. **Ganesh Kumar, S., G. Sridhar, R. Radhakrishnan, R. G. Robinson and K. Rajagopal** (2015) A case study of vacuum consolidation of soft clay deposit. *Indian Geotechnical Journal*, **45**(1), 51-61. (Scopus)

NATIONAL CONFERENCE (2)

1. **Sridhar, G and R. G. Robinson**, (2010). Strength and Compressibility behaviour of Soft Clay after Vacuum Preloading. Indian Geotechnical Conference- Bombay, Vol. II, Theme-8.
2. **Sridhar, G. and Veena, U** (2013). Pneumatic Consolidometer for Testing Large Size Consolidation Specimen, *4IYGEC*, 17-18 May, Chennai, 17-20.

RESEARCH GRANT

Title	Funding Agency	Amount, Rs	Duration
Numerical Modelling of Surcharge Preloading with Vertical Drains.	BITS Pilani, under Research Initiation Grant	4,00,000	2 years

INDUSTRIAL CONSULTANCY

Title	Funding Agency	Amount, Rs	Duration
Non Destructive Testing of Raw Mill Foundation .	Star Cements Co LLC, Dubai	5,00,000	6 Months

LABORATORY DEVELOPMENT

- Established New Geotechnical and Concrete Laboratory at BITS Pilani, Dubai Campus. Contributions include identification of equipments for UG courses, short listing of quotation, planning and development of laboratory space, location and other facilities.

SKILLS

- Design and Fabrication of Test Setups for Geotechnical Lab and sufficient experience to develop a new Geotechnical Engineering Laboratory Facility.
- Six years of Working Experience in Geotechnical Laboratory Testing (**IITM**).
 - Have working experience in consolidation testing and triaxial testing, Bishop-Wesley stress path apparatus, cyclic triaxial apparatus, flexible wall permeability apparatus, instrumented radial consolidation testing.
- One Year Working Experience in Geotechnical Centrifuge facility at **National University of Singapore (NUS), as a part of Joint Ph. D Programme**.
 - Worked on development of strong box, pore pressure and stress transducer calibration and instrumentation. Testing with T-Bar penetrometer for strength profiling of clay deposit.
- Application Software skills : **FEM based ABAQUS and Plaxis**.

SCHOLASTIC ACHIEVEMENTS

- Awarded **Silver Medal for 30th Rank in B.E** out of 1597 students from Colleges Affiliated to Anna University (Academic year 2004-2008).
- Secured **All India Rank 144 in GATE-2008**.
- Awarded **Rajinikant Gandhi Memorial Award - Silver Medal** for the best academic record in M. Tech Geotechnical Engineering, Batch 2008-2010.
- **IGS-Mr. H.C. Verma Diamond Jubilee Award** (2015) for "Innovative Instrument Design" for the paper entitled "Flexible Wall Permeameter to Measure the Coefficient of Permeability in Horizontal Direction" published in Geotechnical Testing Journal, ASTM.
- **IGS-AIMIL Biannual Award** for the Best Paper (2016) titled " A Case Study of Vacuum Consolidation of Soft Clay Deposit" Published in the Indian Geotechnical.
- **IGS-Baroda Chapter Young Geotechnical Engineer Award** (2018) for the Best Paper on Ground Improvement (Paper titled "Properties of Soil after Surcharge or Vacuum Preloading".)
- **MHRD, Government of India and National University of Singapore (NUS) Research Scholarship** for pursuing Ph.D at IIT Madras and National University of Singapore (2010-2015).

NATIONAL CONFERENCE ATTENDED (2)

1. Attended Indian Geotechnical Conference-2011, Titled "**Geochallenges**" held during 15th to 17th December-2011 at Kochi, Kerala.
2. Attended Deep Foundation Institute Conference, Titled "**Deep Foundation Technologies for Infrastructure Development in India**" held during 18th to 19th September 2012 at IIT Madras, Chennai-36.

PROJECTS

- **Ph. D Thesis** Titled "**Studies on Vacuum Preloading of Soft Clay Deposits**" (5 Years)
 - Guidelines for laboratory determination of coefficient of horizontal consolidation, c_h .
 - Studies on Advantages of using vacuum preloading over surcharge preloading.
 - Studies that will help to understand the fundamental behaviour of soil under vacuum consolidation.
 - Guidelines for Numerical simulation of vacuum preloading projects.
 - Guidelines for field application of vacuum pressure for preconsolidation of soft clay soils.
- **M.Tech Thesis** Titled "**Engineering Properties of Soft Clay After Vacuum Preloading**" (10 months)
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- A new method has been proposed to determine the coefficient of horizontal consolidation, c_h for the rational design of prefabricated vertical drains.
 - A specially designed apparatus has been used to determine the anisotropy in permeability.
 - The engineering properties namely shear strength and consolidation properties of soft soil under 1-Dimensional loading, vacuum preloading and surcharge preloading are evaluated and compared through series of laboratory tests.
- **B.E Project titled “Simulation Of Rock Fall Impacting A RC Slab Using ANSYS” (4 months)**
 - The rock fall on rock sheds (RC Slabs) in mountainous areas is simulated using ANSYS.
 - Dynamic 3-D problem simulated by accelerating a cubic model from certain height and making it to impact on to the modeled slab using concrete65 element. Deformation, stresses and other parameters are captured.
- **B.E Design Project Titled “Analysis and Design of A Turbo-Generator Foundation” (4 months)**
 - Analysis and Design of a framed foundation for a Turbo-Generator in a nuclear power plant.
 - Dynamic problem with Amplitude and Frequency as Failure criteria.
 - Structural design of frames and beams considering loads from all components.
- **Training at Simplex Infrastructures Limited (SIL), chennai. (6 weeks)**
 - Learnt Piling Operation, operation of batching plants, dewatering systems, pile load test, pile integrity testing at a site near North Chennai Thermal Power Station (NCTPS).
 - Worked on analysis of site investigation report and design of pile foundation at SIL office.