

Bio Data

Dr. Prabu Thannasi M.E, Ph.D.,
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CAREER OBJECTIVE

Graduate student with research experience in the ***Development of Lunar Soil Simulant, Lunar Structures, In-situ Lunar Materials based Research, Geotechnical Properties of Lunar Soil Simulants, and Geotechnical Engineering*** looking for a challenging career that will provide me with a good platform to utilize my teaching & research skills to gain exceptional career move ahead through long efforts and performance regularity.

EDUCATION

Ph.D. <i>Geotechnical Engineering</i>	National Institute of Technology, Tiruchirappalli, Tamil Nadu, India	July 2019 – Feb 2023
M.Tech. <i>Soil Mechanics and Foundation Engineering</i>	Anna University – CEG Campus, Chennai, Tamil Nadu, India	Aug 2013 – May 2015
B.Tech. Civil Engineering	Kongu Engineering College, Erode, Tamil Nadu India	Aug 2009 – Jun 2013

WORK EXPERIENCE

Senior Research Fellow (SRF)	National Institute of Technology, Tiruchirappalli, Tamil Nadu, India	Jan 2021 to April 2022
Junior Research Fellow (JRF)	National Institute of Technology, Tiruchirappalli, Tamil Nadu, India	Jan 2019 to Dec 2021
Assistant Professor Civil Engineering	Builders Engineering College, Kangayam, Tamil Nadu, India	Jun 2015 to Dec 2018

REFEREED PUBLICATIONS

Journals:

- Prabu, T,** Muthukkumaran, K, Venugopal, I, and Anbazhagan, S (2023). Similarity Assessment of Lunar soil Simulant (LSS-ISAC-1) for Lunar Habitation Materials and Structures. Planetary and Space Science (**ELSEVIER – Q2 & IF – 2.065**) <https://doi.org/10.1016/j.pss.2023.105710>
- Prabu, T,** Muthukkumaran, K, and Venugopal, I (2022). Assessment of Dynamic Properties of a New Lunar Highland Soil Simulant (LSS-ISAC-1) Developed for Chandrayaan Missions. Soil Dynamics and Earthquake Engineering, 155. (**ELSEVIER – Q1 & IF – 4.250**) <https://doi.org/10.1016/j.soildyn.2022.107178>

3. **Prabu, T**, Muthukkumaran, K, and Venugopal, I (2022). Study on Low Gravity Effect on Bearing Capacity of a New Lunar Highland Soil Simulant (LSS-ISAC-1) for Futuristic Moon Colonization. *Advances in Space Research*. (**ELSEVIER - Q2 & IF - 2.611**) <https://doi.org/10.1016/j.asr.2022.06.026>
4. **Prabu, T**, Muthukkumaran, K, Venugopal, I and Anbazhagan, S (2021). Assessment of Shear Strength and Compressibility Behaviour of Newly Developed Lunar Soil Simulant (LSS-ISAC-1) for Lander and Rover Chandrayaan Mission. *Planetary and Space Science*, 209. (**ELSEVIER - Q2 & IF - 2.065**) <https://doi.org/10.1016/j.pss.2021.105354>
5. **Prabu, T**, Muthukkumaran, K and Venugopal, I (2021). Assessment of Geotechnical Properties of Lunar Soil Simulants for Lunar Missions. *Indian Journal of Engineering and Materials Science*, 28, 317-329. (**NISCAIR - Q3 - IF - 0.73**)
6. Venugopal, I, **Prabu, T**, Muthukkumaran, K and Annadurai, M (2020). Development of a Novel Lunar Highland Soil Simulant (LSS-ISAC-1) and Its Geotechnical Properties for Chandrayaan Missions. *Planetary and Space Science*, 194 (2020) 105116. (**ELSEVIER - Q2 & IF - 2.065**) <https://doi.org/10.1016/j.pss.2020.105116>.
7. Venugopal, I, Muthukkumaran, K, Annadurai, M, **Prabu, T** and Anbazhagan, S (2020). Study on Geomechanical Properties of Lunar Soil Simulant (LSS-ISAC-1) for Chandrayaan Mission. *Advances in Space Research*, 66, 2711-2721. (**ELSEVIER - Q2 & IF - 2.611**) <https://doi.org/10.1016/j.asr.2020.08.021>.
8. **Prabu, T**, Venugopal, I, Muthukkumaran, K (2021). Geotechnical Properties of Lunar Simulant. 7th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics. *Lecture Notes in Civil Engineering, Soil Dynamics*, 85- 94. (**SPRINGER**)
9. Venugopal, I, Muthukkumaran, K, Sriram, K.V, Anbazhagan, S, **Prabu, T**, Arivazhagan, S. and Sanjay Kumar Shukla (2020). The invention of Indian Moon Soil (Lunar Highland Soil Simulant) for Chandrayaan Missions. *International of Geosynthetics and Ground Engineering*, 6, 44 (2020). (**SPRINGER**) <http://doi.org/10.1007/s40891-020-00231-0>.
10. **Prabu, T**, Muthukkumaran, K, and Venugopal, I (2022). Performance of Lunar Sulfur Concrete Developed using New Lunar Highland Soil Simulant (LSS-ISAC-1) for Lunar Habitation. *Materials in Civil Engineering (ASCE - Q1)* (Under Review)
11. Venugopal, I, **Prabu, T** and Muthukkumaran, K (2022). Foundation Systems for Lunar Structures for Futuristic Moon Colonization. *Progress in Aerospace Sciences (ELSEVIER - Q1 & IF - 8.934)* (Under Review)
12. **Prabu, T**, Kirithika, S and Mathiyarasu, S (2022). Shear Strength and Compressibility Behaviour Soft Clay Stabilized with Nanosized Cement Particles. *Applied Clay Science (ELSEVIER - Q1 & IF - 5.907)* (Under Review)
13. **Prabu, T**, Kirithika, S and Mathiyarasu, S (2022). Soft Clay Improvement using Nanosized Additive Particles. *Canadian Geotechnical Journal (ELSEVIER - Q1 & IF - 4.754)* (Under Review)
14. Sachin Prabhu, P, **Prabu, T** and Eswarmoorthi, P (2017). Influence of Nanosized Cement & Flyash Particles on the Behavior of Soil. *International Journal of Civil Engineering and Technology*, 10, 337-344. (**IAEME**) <http://iaeme.com/Home/issue/IJCIET?Volume=8&Issue=9>
15. Eswarmoorthi, P, Sachin Prabhu, P, **Prabu, T** and Indrajith, A.J (2017). Contamination of Soil by Tannery Waste Effluent. *International Journal of Civil Engineering and Technology*, 8, 1674-1680. (**IAEME**) <http://iaeme.com/Home/issue/IJCIET?Volume=8&Issue=8>
16. Eswarmoorthi, P, Senthil Kumar, V, Sachin Prabhu, P, **Prabu, T** and Lavnaya, S (2017). Influence of Nanosized Silica & Lime Particles on the Behavior of Soil. *International Journal of Civil Engineering and Technology*, 9, 353-360. (**IAEME**) <http://iaeme.com/Home/issue/IJCIET?Volume=8&Issue=9>

BOOK CHAPTERS

1. Muthukkumaran, K, **Prabu, T**, Venugopal, I (2021). Dynamic Characterization of Lunar Soil Simulant (LSS-ISAC-1) for Moonquake Analysis. In book: Latest Developments in Geotechnical Earthquake Engineering and Soil Dynamics, 513 – 523. **(SPRINGER)**
http://doi.org/10.1007/978-981-16-1468-2_26

PATENTS

1. **Prabu Thannasi and Muthukkumaran Kasinathan (2022)**, Lunar Pile for Lunar Structures – Indian Patent (Status: Under review)

ACADEMIC ACTIVITIES AND AWARDS

Journal Reviewer:

1. Acting as a reviewer for the “**Arabian Journal of Geosciences**,” **SPRINGER, SCIE**.
2. Acting as a reviewer for the “**Journal of Materials**” **MDPI, Scopus**.
3. Acting as a reviewer for the “**Journal of Aerospace**” **MDPI, Scopus**.
4. Acting as a reviewer for the “**Journal of Applied Sciences**” **MDPI, Scopus**.
5. Acting as a reviewer for the “**American Journal of Engineering and Applied Sciences**” **USA**
6. Acting as a reviewer for the “**American Journal of Engineering and Applied Sciences**”, **Neuroscience Publications, USA**
7. Acting as a reviewer for the “**Journal of Civil Engineering**” and “**International Journal of Engineering, Basic Sciences, Management and Social Studies (IJEBMS)**,” **IEAE International Journals**.

Editor:

1. Acting as an **Editor** for the “**Iterative International Publishers IIP, USA & India**” Book Series for **Futuristic Trends in Construction Materials & Civil Engineering**. **IIP_V2_2022_BS_05_06**

Awards:

1. Won **Young Researcher Award’22** for the research work on Evaluating the Geotechnical Properties of the lunar soil simulants (Chandrayaan Missions), awarded by the **Institute of Scholars, Bangalore, India**.
2. Won **Research Excellence Award’21** for outstanding research work and publications awarded by the **Institute of Scholars, Bangalore, India**.

Prabu Thannasi