ASWATHY C M

Geotechnical and Geo-environmental Ph.D. Researcher

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SUMMARY

Versatile and accomplished Ph.D. researcher in geotechnical and geoenvironmental engineering, specializing in innovative solutions for sustainable waste disposal, soil reactive barriers, and contaminated site remediation. Expert in advanced geotechnical analysis and committed to translating research into real-world applications. Proven track record in academia with a collaborative approach to addressing complex challenges at the intersection of engineering and environmental sustainability. Eager to contribute expertise to dynamic projects in geo-environmental engineering.

EXPERIENCE

Geo-environmetal Researcher

National Institute of Technology Karnataka

2019 - 2024 Karnataka, India

Dissertation submitted on December 2023.

- Main research focused on the performance of bentonite-slag based liner permeated with ammonia for a municipal solid waste landfill
- Conducted elaborated laboratory studies on geotechnical characterisation, contaminant migration and mitigation

Teaching Assistant - Geotechnical engineering **National Institute of Technology Karnataka**

- 苗 2019 2023 👂 Karnataka, India
- Conducted laboratory sessions and guided MTech student research projects
- Assisted in invigilation duties

Scientific Publications

- · Aswathy, C. M., and Sunil, B. M. (2022). "Effect of ammonia on the hydraulic conductivity and adsorption characteristics of lithomargic clay - bentonite barrier in landfills." Journal of Environmental Chemical Engineering, 10(6), 108750 (Impact factor: 7.7)
- Aswathy, C. M., and Sunil, B. M. (2020). "Reactive barriers for remediation of leachate contaminants in soil: A review", International Conference on Green Highway Construction - A Sustainable Approach, National Institute of Technology Karnataka, Book chapter -pp 67-76
- Aswathy, C. M., Raj, A. S., and Sayida, M. K. (2019). Strength enhancement of ZELIAC treated dispersive silty sand. Int. Conf. Geotech. High Speed Corridors, 26-29.
- Aswathy, C. M., Raj, A. S., and Sayida, M. K. (2021). Effect of Bioenzyme—Chemical Stabilizer Mixture on Improving the Subgrade Properties. Lect. Notes Civ. Eng., 779-787.

Reference:

- Prof. Sunil B.M, Professor Dept. of Civil Engineering NITK, Surathkal, Karnataka, India Email id: sunilbm@nitk.edu.in
- Dr. Jayasree P.K, Professor Dept. of Civil Engineering, College of Engineering Trivandrum (CET), Thiruvananthapuram, Kerala, India Email id: jayasreepk@cet.ac.in

SKILLS

Auto CAD

MS Office

Ground improvement techniques

Environmental geotechnics

Technical writing and communication

Geotechnical Site Characterization

Laboratory testing of soil samples

EDUCATION

Ph.D. - Geotechnical Engineering **National Institute of Technology Karnataka**

2019 - 2024

9 Surathkal, Mangaluru, Karnataka, India

Master of Technology - Geotechnical Engineering

College of Engineering Trivandrum

= 2017 - 2019

♥ Thiruvananthapuram, Kerala, India

B.Tech in Civil Engineering **MG University**

INDUSTRY EXPERTISE

Site Engineer and supervisor

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