

Name : Dr. Shovik Deb
Date of birth : 6th February 1984
Designation : Senior Scientist
Qualification : Ph.D. (Soil Science)
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Educational qualification

- Ph.D. (Soil Science) from IIT Kharagpur and Helmholtz UFZ (Bi-nationally supervised)
- M.Sc. (Agricultural Chemistry and Soil Science) from Bidhan Chandra Krishi Viswavidyalaya
- B.Sc. (Agriculture) from Uttar Banga Krishi Viswavidyalaya

Professional Experience

- Served as a Research Associate at ICRISAT for 1 year (20th May 2013 to 30th May 2014), focusing on natural resource management in semi-arid ecosystems.
- Worked as Assistant Professor of Soil Science at Uttar Banga Krishi Viswavidyalaya for 11 years (26th June 2014 to 23rd June 2025). Taught U.G., P.G., and Ph.D. courses on soil science, guided P.G. and Ph.D. students, and conducted independent research (funded by ISRO, SERB, DSTBT, ICAR) on soil carbon, quality, pollution, erosion, and remote sensing and GIS applications.
- Working as a Senior Scientist at ICAR-National Bureau of Soil Survey and Land Use Planning, Regional Centre Kolkata since 24th June 2025.

Research area

1. Application of Remote Sensing and GIS in Agriculture
2. Environmental Soil Science (Soil Carbon, Soil Quality, Soil Pollution)

International experience

- Completed part of Ph.D. research at Helmholtz UFZ, Germany, under DAAD funding
- Participated in 4th International Symposium on Soil Organic Matter at Nanjing, China in 2013 under DST funding
- Visited George August University, Göttingen, Germany, in November 2017 to participate in DAAD alumni special project in the framework of the AGRITECHNICA

Awards

- Best paper award by Range Management Society of India (2020)
- Received DAAD short-term PhD fellowship (2010-11)
- Qualified NET in Soil Science conducted by ICAR (2009 and 2010)
- Received Indian Society of Soil Science Zonal Award for best M.Sc. thesis (2009)
- Received CSIR JRF and SRF and qualified NET in Earth Science (2008)
- Received ICAR JRF in Physical Science (2006)
- Received Jagadis Bose National Science Talent Search scholarship (2001)

Honours/ Recognition

- Elected Associate of West Bengal Academy of Science and Technology (2021)
- Editorial board member of Discover Soil (Springer-Nature)

Ten best research papers along with NAAS rating-2025

Publication	NAAS rating
i Deb, S.* (2024) Deep soil carbon as a soil quality parameter (Short article/Voices). In: Understanding soil health. <i>One Earth</i> 7: 2088-2091.	20.0
ii Hazra, U.N., Mahato, A., Deb, S.* , Chakraborty, S., Datta, D., Santra, P., Patra, P.S., Choudhury, A. (2024) Integration of GIS with RUSLE to estimate soil, organic matter and nutrient loss from a watershed of eastern Himalayan Terai. <i>Environmental Earth Sciences</i> 83: 668.	8.80
iii De, P., Deb, S.* , Deb, D., Chakraborty, S., Santra, P., Dutta, P., Hoque, A., Choudhury, A. (2022) Soil quality under different land uses in eastern India: Evaluation by using soil indicators and quality index. <i>PLoS ONE</i> 17: e0275062.	8.90
iv Deb, D., Deb, S.* , Chakraborty, D., Singh, J.P., Singh, A.K., Dutta, P., Choudhury, A. (2022) Aboveground biomass estimation of an agro-pastoral ecology in semi-arid Bundelkhand region of India from Landsat data: A comparison of support vector machine and traditional regression models. <i>Geocarto International</i> 37: 1043-1058.	9.30
v Sarkar, A., Deb, S.* , Ghosh, S., Mandal, S., Quazi, S. A., Kushwaha, A., Hoque, A., Choudhury, A. (2022) Impact of anthropogenic pollution on soil properties in and around a town in Eastern India. <i>Geoderma Regional</i> 28: e00462.	9.10
vi Deb, S.* , Mandal, B. (2021) Soils and sediments of coastal ecology: a global carbon sink. <i>Ocean & Coastal Management</i> 214: 105937.	10.80
vii Deb, S. , Kumar, D., Chakraborty, S.*, Weindorf, D.C., Choudhury, A., Banik, P., Deb, D., De, P., Saha, S., Patra, A.K., Majhi, M., Naskar, P., Panda, P., Hoque, A. (2019) Comparative carbon stability in surface soils and subsoils under submerged rice and upland non-rice crop ecologies: A physical fractionation study. <i>Catena</i> 175: 400-410.	11.40
viii Deb, S.* , Debnath, M.K., Chakraborty, S., Weindorf, D.C., Kumar, D., Deb, D., Choudhury, A. (2018) Anthropogenic impacts on forest land use and land cover change: Modelling future possibilities in the Himalayan Terai. <i>Anthropocene</i> 21: 32-41.	9.30
ix Deb, D., Singh, J.P., Deb, S.* , Datta, D., Ghosh, A., Chaurasia, R.S. (2017) An alternative approach for estimating above ground biomass using Resourcesat-2 satellite data and artificial neural network in Bundelkhand region of India. <i>Environmental Monitoring and Assessment</i> 189: 576.	8.90
x Deb, S. , Chakraborty, S.*, Weindorf, D.C., Murmu, A., Banik, P., Debnath, M.K., Choudhury, A. (2016) Dynamics of organic carbon in deep soils under rice and non-rice cropping systems. <i>Geoderma Regional</i> 7: 388-394.	9.10

Total publications (peer-reviewed journals only): 38

Citation: 1278 (till 5th August 2025)

Google scholar link: <https://scholar.google.com/citations?user=RIgbqMIAAAAJ&hl=en>