



Hash BioTech Labs
a group company of Hash Group



Team of Experts

Dr. Surendra Singh is a world renowned scientist in the field of micro algal biotechnology and has extensive post graduate research experience spanning over 19 years.

He completed his M.Sc and Ph.D. on blue green algae and applied phycology from Banaras Hindu University, India and was awarded a Commonwealth post doctoral fellowship by the government of the United Kingdom, at The University of Dundee. He has extensive research experience in the field of algal Biotechnology.

Dr. Singh has previously worked with various world renowned scientists in UK, Israel, India and China. He has supervised various research projects sponsored by the Government of India. He has also successfully supervised 61 PhD's, Post Doc's and M. Phil candidates and published 32 research papers in various national and international journals.

At present, Dr Singh, serves as the Chief Technology Officer at Hash BioTech Labs Private Limited wherein he is spearheading various micro algal research initiatives in the areas of Bio Energy, Nutraceuticals, Pharmaceuticals and Bio Pigments. In his role as the Chief Technology Officer, he promotes and monitors technological innovations to help achieve its most urgent priorities and assesses their potential to become new products or services which add value to our company. As an active researcher and scientist par international standards, he is well versed in the field of biotechnology and microbiology; Dr. Singh's expertise in this field has been well acclaimed and demonstrated, globally.

His exemplary expertise and unparalleled contribution to the growth of biotechnology industry has enabled us to explore and identify needs and advancements in our operating fields and to achieve a competitive advantage in the market place. Recently, Dr. Singh has been appointed as Scientific Facilitator and Adviser to IIMSAM, UN.



Dr. SURENDRA SINGH

DIRECTOR TECHNOLOGY &
R&D

M.SC. PH.D. (B.H.U.), P.D.F.
(U.K., Israel & P.R. China),
F.B.S., F.N.R.S.

Dr Deepak Shrivastava is a specialist in the area of algal research and commercial cultivation. His area of research includes impact of micro algae Spirulina on human patients of Rheumatoid Arthritis

Dr. Shrivastava spent seven years in algal research and commercial outdoor cultivation, Dr. Shrivastava comes with vast experience in customizing and scaling up algal production under different environmental conditions. Prior to joining Hash BioTech, Dr. Shrivastava has worked in various research and commercial organizations in Rajasthan and in a project of DBT, New Delhi. Dr. Shrivastava has successfully trained rural people in the outdoor cultivation of micro algae “Spirulina”, under a Government of India project in Gujarat.

In his capacity as Senior Production Officer, Hash BioTech, Dr. Shrivastava oversees the cultivation of various commercial important algae at Hash BioTech Farms, a division of Hash BioTech Labs Private Limited. It is to his credit that Hash BioTech has been able to take various micro algae from its research labs to commercial scale.

Dr. Shrivastava has presented numerous research papers in national and international conferences. His contributions to the various domains of commercial algal cultivation have been a key driving factor in the growth of the company.



Dr. DEEPAK SHRIVASTAVA

Sr. PRODUCTION OFFICER
M.Sc. (Botany), Ph.D. (Botany)



Dr. Pandey has joined Hash BioTech Labs Private Limited, as a specialist in the area of algal biotechnology. His areas of interest include Algal Biotechnology, Algal formulations, Clinical Diagnostics, Clinical and Nutritional Biochemistry.

Dr. Pandey has previously worked in Cadburys India Private Limited, Defense Research Development and Establishment etc. Dr. Pandey has presented numerous research papers various international/national symposium and conferences. He is lifetime member of UNISEF, Indian Cancer Care Association (ICCA), Center of Immune and Immuno Pathology (CIIP) Jalma, Indian Phycology Society & Association of Clinical Biochemistry of India.

In his capacity as Production Officer, Hash BioTech, Dr. Pandey is in charge of the day to day cultivation work of various commercial cultivated micro algae. It is to his credit that Hash BioTech has been able to build its cultivation facility in a record time. His contributions to the algal farm development and daily operations have been a key driving factor in the fast growth of the company.



Dr. RAJESH PANDEY
PRODUCTION OFFICER

M.Sc. (Applied
Biochemistry), Ph.D.
(Biochemistry)

Dr. Tiwari has joined Hash BioTech Labs Private Limited, as training coordinator. Previously she has worked for State Forest Research Institute (S.F.R.I) a Govt. Institute as a project coordinator and successfully led a team of trainees and researchers.

Dr. Tiwari has research experience of five years in the most promising field of cyanobacteria. Her work of interest includes the area of algal biotechnology, algal taxonomy, physiology, molecular characterization, technical writing and training. She has written several chapters in very renowned books for microbiology and biotechnology field which is now been read by the M. Sc students and researchers. She has mastered her skill in molecular techniques from National Bureau of Agriculturally Important Microorganisms (N.B.A.I.M), Kusmaur, Mau Nath Bhanjan 275 101, U.P. Member of “World federation of Culture Collection” and recognized as “National Repository by Biodiversity Authority of India Act 2002” and got trained in other microbiological techniques from Department of Biological Sciences, R.D University, Jabalpur.

She has presented research papers related to cyanobacterial biodiversity, cyanobacterial biotechnology and environmental biotechnology in several national and international symposium and seminars and been awarded USD 120,000 per year. She has also worked successfully in Centre of Advanced Studies in Botany (CAS), University of Madras, one of the India's best departments working on the pioneer fields of Algal biotechnology.



Dr. ANURADHA TIWARI

Sr. SCIENTIST & TRAINING
COORDINATOR

M.Sc (Botany) with
specialization in Industrial
Microbiology, Ph.D –
(Botany) Algal
Biotechnology and
Biodiversity).

Dr. Das has worked in Algal Biotechnology Laboratory, Department of Biological Sciences R.D.University, Jabalpur as a research scholar and successfully executed numerous research experiments. She has mastered in various laboratory techniques and cultivated her interest in doing scientific research. Her Ph.D work focussed on the production, purification and clinical properties of extracellular polysaccharide from potential cyanobacterial isolate(s). She has a teaching experience of one year in the Department of Biological Sciences, R.D.V.V., Jabalpur (M.P.) and has written several chapters in renowned books of Microbiology and biochemistry.

She has mastered her skill in molecular techniques from the National Bureau of Agriculturally Important Microorganisms, (U.P.) India.

She has attended Workshop on Research techniques in Cyanobacteriology and Workshop on Bioinformatics for Cyanobacteriologists. She has also done her training in HPLC from Choksi laboratories, Indore (M.P.) and learned other techniques used in the testing of drugs like Disintegration Time, Dissolution time and sample preparation techniques.

Her Specialized skills include: Isolation Purification and Characterization and maintenance of Cyanobacteria from different growing habitats, Quantitative and Qualitative Analysis of Carbohydrate, Protein, Amino acid, Lipid, fatty acid, Enzymes and Nucleic acid, Cultivation of Cyanobacteria in Tubular Glass Photobioreactor and Flat Plate Glass Photobioreactor, Isolation and Purification of Genetic Material and expertise in field of animal handling.

She is a Member of various scientific societies like Indian Science Association, Science India and SRDTHFD.



Dr. SHIPRA DAS

Sr. SCIENTIST(FACULTY)

M.Sc. (Biochemistry) with specialization in Clinical Biochemistry, Ph.D- (Biochemistry), Algal Biotechnology , Physiology and Biochemistry

Mr. Gohil has worked on various NTO (Non-traditional Oil Seed) plants from the last 10 years for addressing its improvement aspect on Physic nut (*Jatropha curcas* L.), Salicornia- a halophytic plant species, stevia- a natural sweetener and Jojoba (*Simmondsia chinensis*). Mr. Gohil has worked as a Scientific Assistant at CSMCRI (CSIR) under a collaborative project of CSIR, New Delhi-Daimler Chrysler, Germany, AG on Bio-fuel and also served NBL, Hyderabad with the mandate of Improvement and commercialization of *Jatropha curcas* L.

Mr. Gohil has published thirteen research papers in various national and international journals. In his capacity as Senior Scientist, Plant Biotech Division at Hash BioTech, Mr. Gohil is working on breeding and agronomical issue on Physic nut (*Jatropha curcas* L.), a high potential bio-fuel plant species by adopting various hybrid seed techniques and proper package of practices for optimum seed yield with desirable oil content. He is also engaged in developing a sustainable business model for the organic cultivation of natural sweetener “Stevia” in India.



Mr. RAJENDRASINH GOHIL

SENIOR SCIENTIST
M.Sc. (Agriculture), MBA
(Agriculture & Biotech
Management)