

## MULTISPECTRA CONSULTANTS

CIVIL ENGINEERING, SOFTWARE ENGINEERING

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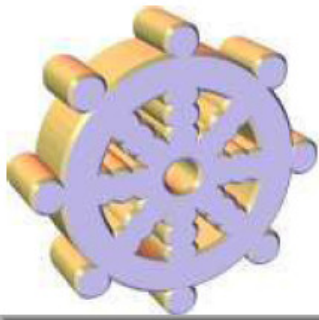
ENGINEERING FOR A BETTER TOMORROW



**MULTISPECTRA CONSULTANTS** (<http://tinyurl.com/MultiSpectraConsultants>) is a company engaged in the business of Civil Engineering and Software Engineering. MultiSpectra Consultants operates in all areas of Civil Engineering and has carved out a niche for itself in finding research-based solutions to Civil Engineering problems. MultiSpectra Consultants is also developing an online platform for Civil Engineers and Architects to interact. MultiSpectra Consultants is owned by Dr. Amartya Kumar Bhattacharya who is its Chairman and Managing Director.

MultiSpectra Consultants is a technology-enabled Civil Engineering company that does business using modern technology and lean management techniques to the utmost extent. MultiSpectra Consultants reduces capital expenditure by various methods - using free and open source software ( FOSS ) extensively instead of proprietary software is just one example. MultiSpectra Consultants uses software like LibreOffice, Apache OpenOffice, Scribus, GNU Image Manipulation Program, Inkscape, and so on instead of their proprietary equivalents to minimise business expenses. Intellectual capital is given great importance by MultiSpectra Consultants in its endeavour to develop innovative business solutions.

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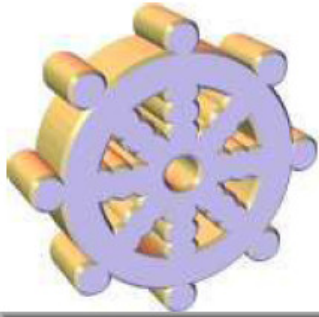
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*In a relatively short period of time, MultiSpectra Consultants has got considerable brand equity. This has been achieved largely through content marketing and projection of expertise in the concerned field through international and national journal papers, international and national conference papers, blogging in reputed international web platforms like LinkedIn, WordPress, Google Blogger, Medium, Weebly, just to name a few. Vigorous activity on academic networks like Academia.edu, ResearchGate and Mendeley, as also on general networks like Facebook, Twitter, Tumblr and Google Plus, is also a part of the strategy of MultiSpectra Consultants.*

*MultiSpectra Consultants uses a lean management technique where the services offered by the company are iteratively improved and scaled-up. Linking experienced senior engineers, technologists and scientists with junior engineers and engineering students is an integral part of developing agile solutions where the experienced senior engineers, technologists and scientists can provide thought leadership and junior engineers and engineering students can learn from them and put in their dynamic hard work to materialise innovative engineering solutions.*

*One of the programmes of MultiSpectra Consultants is called **MULTISPECTRA SPARK** (<http://tinyurl.com/MultiSpectraSpark>). The details of **MULTISPECTRA SPARK** are given below. This programme allows senior engineers, technologists and scientists to be affiliated to MultiSpectra Consultants on a profit-sharing or commission basis, not on a salaried basis. Such senior engineers, technologists and scientists are expected to be involved in lead-generation as well as in project execution. In addition, MultiSpectra Consultants has a vibrant educational programme for students and young engineers called **MULTISPECTRA EDGE** (<http://tinyurl.com/MultiSpectraEdge>). The details of **MULTISPECTRA***

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**EDGE** are also given below. One of the objectives of **MULTISPECTRA EDGE** is to develop a spirit of entrepreneurship among students and young engineers. Under the **MULTISPECTRA SPARK** programme, the profit-sharing or commission depends on the quantum of work. Just as one of the objectives of **MULTISPECTRA EDGE** is to develop a spirit of entrepreneurship among students and young engineers, one of the objectives of **MULTISPECTRA SPARK** is to develop a spirit of entrepreneurship among senior engineers, technologists and scientists.

MultiSpectra Consultants operates in the following areas:

Hydraulics;

Hydrology;

Water Resources Engineering;

Geotechnical Engineering;

Structural Engineering;

Environmental Engineering;

3rd Party Quality Control / Quality Assessment ( QC/QA );

Project Management Consultancy;

Landscape and Interior Designing;

Civil Engineering Research and Development ( R&D );

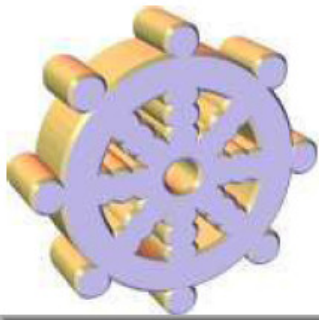
Civil Engineering Education and Training;

Software Engineering;

Cloud Computing.

An agile and scalable business model is used by MultiSpectra Consultants to cater to a global

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clientele. There is no limit to the number of 'affiliates' under the MultiSpectra Spark and MultiSpectra Edge programmes. This ensures scalability.

As the number of 'affiliates' under the MultiSpectra Spark and MultiSpectra Edge programmes has grown, the output of MultiSpectra Consultants has increased.

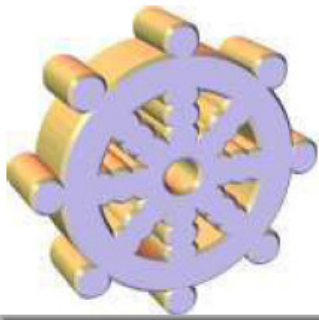
'Affiliates' under the MultiSpectra Spark and MultiSpectra Edge programmes work in geographically separated clusters. Latest collaboration and communication methods are used by 'affiliates' to collaborate. MultiSpectra Consultants blends cutting-edge collaboration and communication methods with Civil Engineering and Software Engineering practice.



**Clientele served by MultiSpectra Consultants:**

- Civil Engineering and Construction Companies;
- Software Companies;
- Government Organisations;
- Individual Clients.

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***Some of the services offered by MultiSpectra Consultants are non-invasive***

#### Utilities Mapping

- Service Utilities : Gas, Communications, Sewer Lines
- Metallic and Non-Metallic pipes
- Underground Storage Tanks
- Water Pipelines

#### Structural Scanning

- Locates Void in Concrete Structures, Metallic and Non-Metallic Conduits, Targets In Walls, Floors etc.
- Measures Concrete Slab Thickness
- Locates Rebars and Post-tension Cables.

#### Transportation Infrastructure Assessment

- Profiling of Road Pavement and Bridge Deck, Rail Ballast, Sub-ballast and Subgrade.
- Assess the Pavement Condition

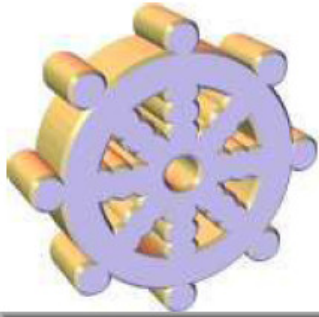
#### Other Services

- Ground Water Table Mapping
- Mineral Exploration
- Archaeological Investigation
- Tunnel and Landmine Detection

***MultiSpectra Consultants is registered with the Ministry of Micro, Small and Medium Enterprises, Government of India, and bears Udyog Aadhaar Number WB10D0002852.***

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*MultiSpectra Global, a wholly-owned subsidiary of MultiSpectra Consultants, is registered with the Ministry of Micro, Small and Medium Enterprises, Government of India, and bears Udyog Aadhaar Number WB10D0011100.*

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*MultiSpectra Consultants is a registered Training Partner of the National Skill Development Corporation, Ministry of Skill Development and Entrepreneurship, Government of India.*

*MultiSpectra Consultants is registered with the Micro, Small and Medium Enterprises Department, Government of Odisha, India.*

*MultiSpectra Consultants is registered as an Offshore Company with Government of United Arab Emirates.*

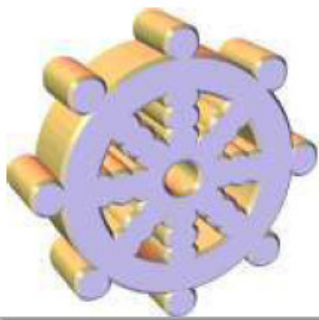
*MultiSpectra Consultants is registered with the Ministry of Industry, Government of Nepal, under Company Category 0200.*

*MultiSpectra Consultants is a Member of the Startup Europe Partnership (SEP).*

*MultiSpectra Consultants is a Member of Startup Lithuania, Startup Canada and Startup Thailand.*

*MultiSpectra Consultants is a Member of the Open Invention Network.*

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*MultiSpectra Consultants is a Member of the World Intellectual Property Organization and is enlisted in the database of experts in WIPO ( World Intellectual Property Organization ) GREEN.*

*MultiSpectra Consultants is an Affiliate of Microsoft, Google, Adobe, Amazon, Corel, Oracle, IBM, Bentley Systems, Cisco, Citrix, WinRAR and other global companies.*

*MultiSpectra Consultants is looking for agents in countries in the Asia-Pacific region, in particular in Nepal, Bhutan, Bangladesh, Sri Lanka, Myanmar, Thailand, Malaysia, Singapore, Laos, Cambodia and Vietnam. Expressions of interest may be directed to the undersigned at [dramartyakumar@gmail.com](mailto:dramartyakumar@gmail.com).*



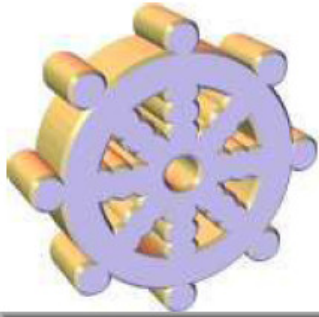
*MultiSpectra Consultants supports*



and



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Open docs  
for an  
open Web



*MultiSpectra Consultants is not a traditional Civil Engineering company. It does not intend to become one.*

**For and on behalf of MultiSpectra Consultants,**

*AK Bhattacharya*

**Dr. Amartya Kumar Bhattacharya**

BCE (Hons.) ( Jadavpur ), MTech ( Civil ) ( IIT Kharagpur ), PhD ( Civil ) ( IIT Kharagpur ), Cert.MTERM ( AIT Bangkok ), CEng(I), PEng(I), FASCE (USA), FIE, FACCE(I), FISH, FIWRS, FIPHE, FIAH, FAE, MIGS, MIGS – Kolkata Chapter, MIGS – Chennai Chapter, MISTE, MAHI, MISCA, MIAHS, MISTAM, MNSFMFP, MIIBE, MICI, MIEES, MCITP, MISRS, MISRMTT, MAGGS, MCSI, MMBSI

**Chairman and Managing Director, MultiSpectra Consultants** ( MultiSpectra Consultants is registered with the Ministry of Micro, Small and Medium Enterprises, Government of India, and bears Udyog Aadhaar Number WB10D0002852 )

**Chairman and Managing Director, MultiSpectra Global** ( Udyog Aadhaar Number WB10D0011100 )

**Chairman and Managing Director, MultiSpectra Technologies** ( Udyog Aadhaar Number WB10D0011153 )

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Kolkata – 700 029,  
West Bengal, India.

Vice President ( East ), Association of Consulting Civil Engineers ( India )

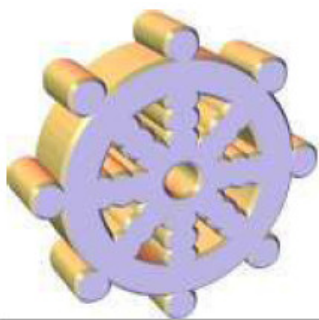
Member, Governing Council, Association of Consulting Civil Engineers ( India )

Visiting Professor of Civil Engineering, University of Peradeniya, Sri Lanka

Honorary Professor of Water Engineering and Management, Central University of Jharkhand, Ranchi, Jharkhand, India

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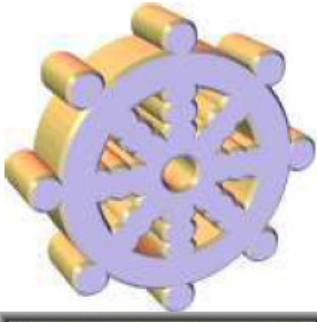
Associate Editor, International Journal of Ecology and Development  
Associate Editor, AGGS Journal of Groundwater Research ( AGGS JGWR )

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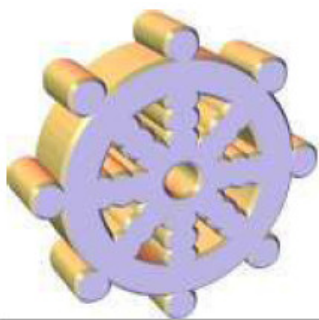
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<http://tinyurl.com/MultiSpectraEdge>  
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<http://startupthailand.org/listing/multispectra-consultants>  
<http://www.startuplithuania.lt/en/startups/multispectra-consultants/670>  
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## **MULTISPECTRA EDGE**

### **#GetAnEdgeOverYourCompetitors**

**MULTISPECTRA EDGE** is an integrated programme offered by MultiSpectra Consultants for students at all levels. It is designed so as to give participating students an Edge over their competitors. A brief outline of **MULTISPECTRA EDGE** is given below.

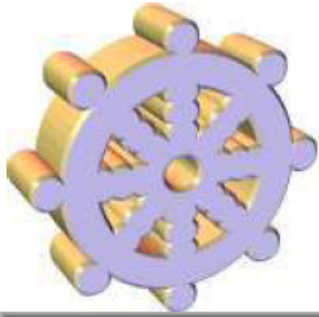
### **MULTISPECTRA EDGE AT THE 10 AND 10+2 LEVELS**

MultiSpectra Consultants offers an in-depth career guidance and advice at both the 10 and 10+2 levels including, but not limited to, guidance and advice pertaining to examinations and tests typically faced by students at these levels. It also seeks to make available modules of advanced knowledge available to students in both online and offline modes.

### **MULTISPECTRA EDGE AT THE UNDERGRADUATE LEVEL**

At the undergraduate level, MultiSpectra Consultants offers in-depth training, career guidance and advice in several ways including training in the form of Summer and Winter Internships and guidance and advice pertaining to examinations and tests typically faced by students at this level. The Summer and Winter Internships are offered in the area of Civil Engineering Research and Development with the standard output being published papers. All students who have participated in this programme so far have a large number of jointly-authored published papers to their credit. A certificate is also given. Students can also work at their parent institution under the Joint Supervision of MultiSpectra Consultants on a topic of interest to MultiSpectra Consultants. If successful, students get a certificate from MultiSpectra Consultants.

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## **MULTISPECTRA EDGE** AT THE POST-GRADUATE AND RESEARCH LEVELS

*At the post-graduate and research levels, MultiSpectra Consultants offers a programme for students to work at their parent institution under the Joint Supervision of MultiSpectra Consultants on a topic of interest to MultiSpectra Consultants. If successful, students get a certificate from MultiSpectra Consultants.*

*MultiSpectra Consultants is also developing an online platform for Civil Engineers and Architects to interact in view of the fact that such a platform does not exist so far and is necessary and will have considerable market traction if the success of healthcare, property, e-commerce, travel and hospitality online platforms is any indication. Students at all levels are welcome to participate in the building of the platform. Needless to say, if students make a meaningful contribution, students get a certificate from MultiSpectra Consultants.*

*Under the 'Open Internship Programme' of MultiSpectra Consultants, any student may make a contribution to any paper and get a certificate besides, of course, being a co-author of the paper.*

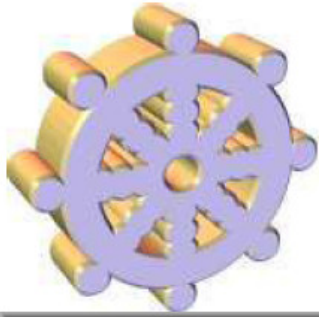
*Students may apply for **MULTISPECTRA EDGE** by e-mailing the undersigned at [dramartyakumar@gmail.com](mailto:dramartyakumar@gmail.com) attaching their current CV to the e-mail.*

For and on behalf of MultiSpectra Consultants,

*AK Bhattacharya*

Dr. Amartya Kumar Bhattacharya  
Chairman and Managing Director.

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## **MULTISPECTRA SPARK**

**MULTISPECTRA SPARK** is meant for senior engineers, technologists and scientists.

This complements **MULTISPECTRA EDGE** the integrated programme offered by MultiSpectra Consultants for students and young engineers which has been a thundering success. ( <http://tinyurl.com/MultiSpectraEdge> ). A brief outline of **MULTISPECTRA SPARK** is given below.

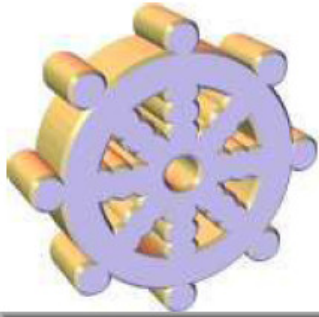
**MULTISPECTRA SPARK** allows senior engineers, technologists and scientists to be affiliated to MultiSpectra Consultants on a profit-sharing or commission basis, not on a salary basis. Such senior engineers, technologists and scientists will be expected to be involved in lead-generation as well as in project execution. As is well known, MultiSpectra Consultants has carved out a niche for itself for finding research-based solutions to Civil Engineering problems. In addition, MultiSpectra Consultants has a vibrant educational programme for students and young engineers and senior engineers, technologists and scientists can be associated with that.

Just as one of the objectives of **MULTISPECTRA EDGE** is to develop a spirit of entrepreneurship among students and young engineers, one of the objectives of **MULTISPECTRA SPARK** is to develop a spirit of entrepreneurship among senior engineers, technologists and scientists.

MultiSpectra Consultants is also developing an online platform for Civil Engineers and Architects to interact in view of the fact that such a platform does not exist so far and is necessary

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*Senior engineers, technologists and scientists may apply for **MULTISPECTRA SPARK** by e-mailing the undersigned at [dramartyakumar@gmail.com](mailto:dramartyakumar@gmail.com) attaching their current CV to the e-mail.*

For and on behalf of MultiSpectra Consultants,

*AKBhattacharya*

Dr. Amartya Kumar Bhattacharya

Chairman and Managing Director.

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