R.RAJKUMAR
CSIR-NGRI, HYDERABAD, INDIA
HTTP://SCHOLAR.GOOGLE.CO.IN/CITATIONS?HL=EN&USER=PN_V_XUAAAAJ.

NGRI RESEARCH GROUP:

Airborne Geophysical Survey Division

FIELD OF SPECIALIZATION:

- Specialization in Airborne Geophysical Instruments like Magnetics, Electromagnetic (Frequency domain and Time Domain) System and involving in Data acquisition, Maintenance and updating all airborne geophysical survey equipments.
- Involving in onboard Data acquisition of multiparametic Data (Magnetics, Electromagnetics and Radiometrics) for more than 50 hrs and acquired appro 50000 line KM for exploration of Kimberlitic and Uranium.
- Recently participated in Multiparametic Survey for Uranium exploration in the States of Haryana, Rajasthan, Jharkhand and West Bengal (NSSZ and SSZ).
  Additionally given Tech Support for DFM (Digital Flux Gate Magnetometer Recording System) installed in Magnetic Observatory.

Education:

2006	Ph.D. (Pursuing) Geophysical Instrumentation, Geophysics, Osmania University, India	
1996	M.Sc. Applied Electronics, Bharathiar University, India	***First Class***
1993	B.Sc. Electronics, Bharathiar University, India	***First Class***

PROFESSIONAL EXPERIENCE:

2006	Working as a Scientist C in Airborne Geophysical Survey Division, National geophysical Research Institute, and Hyderabad –INDIA.
2002	Worked as a Scientist C in Airborne Geophysical Survey Division, NGRI.
1991-93	Worked as a Design Engineer/ Working partner for Merton Electro controls, SIDCO, Coimbatore.

VISITING POSITIONS:

1991-1994	Worked as a Consultant for Industries like Metal form Engg.Works, RV Paper Mills Limited and Sathy Engineering Works.
1994	Worked as a Consultant for Rajam Neon Signs and Maruthi weighing machine.

TEACHING EXPERIENCE:

- Worked 4 ½ Years as a Lecturer in Electronics Science for UG and PG Degree at Dept.of Electronics Science, Hindustan College of Arts and Science, Chennai.
- Guest faculty for MCA class of Distance Education Programme, University of Madras.
- Guest faculty for Prof. Dhanapal College of Arts and Science for Women.

Technical Training:-

	TITLE OF COURSE	ORGANIZATION/INSTITUTE	PERIOD
1	Microcontroller based Embedded System	IETE, Hyderabad India.	**1 month**
2	Training on Helicopter borne EM systems	Geo-Tech Canada.	**20 Days**
3	Basis of GPS Systems and Ionosphere	Navigation Training Unit OSMANIA UNIVERSITY Hyderabad –India	**20 Days**
4.	Training on Airborne Gamma Ray Spectrometer	Radiation Solution Inc Canada	**One week**
5	Practice on Modern Magnetometers	Neimek Observatory GFZ, Potsdam Germany	**10 days**
6	Training on Airborne VTEM system	Geo-Tech, South Africa	**2 months**
7	Training on Geo-Mag for Magnetic Observatory.	Institute of Polish Academy Warsaw, Poland	**7 days**

SERVICE:

Member:-

Associate Editor:- NIL

Guest Editor:-

Technical Committee:-

Member of Technical committee formed RC chairman for "*Fabrication of Sensor Head for Heliborne Electro-Magnetic Survey* "

***(other members are from* BARC, ECIL, IGCAR, and AMD)**

Current NGRI Committees: NIL

Past NGRI Committees: NIL

AWARDS AND HONORS: NIL

PH.D. ADVISOR: NIL

SCIENTISTS WITH WHOM I HAVE COLLABORATED (OUTSIDE NGRI):

Current

Dr. Abinav Kumar, Dr. AK Chawla, Mr. Moriya and Mr. Rakesh Mohan of AMD

Past

I had a working experience with Dr. Linthe, Head Magnetic Observatory Niemek, and Germany.

I had a working experience with Mr. Hughes and Mr. Jasper Engineers of Geo-Tech.

NGRI Collaborators (present and past):

Giving Tech.Support to Digital Flux Gate Magnetometer Recording Systems installed in Magnetic Observatory, which is having now the status of Intermagnet.

PATENT : NIL

PUBLICATIONS:-

Title**:** ***Aeromagnetic analysis for ground water location-A case study from South Indian shield*****.**

Authors: K.Satish Kumar, R.K. Kishore, T.Seshunarayana, V. Pradeep Kumar, Parveen Begum,

R Raj Kumar and Ch. Rama Rao. Published Date: Communicated to Current Science.

Books: nil

Book Chapters: nil

Book Reviews: nil

Review or non-technical Article:

Technical Reports:

1. Title: ***High Resolution Airborne Magnetic Survey for Kimberlite Exploration Over Kalyandurg Area. Andhra Pradesh.***
   Publication date: 2005. Issue: NGRI-Tech.Rep No: NGRI-2005-Exp-471.
2. Title: ***High Resolution Multiparameter Airborne Geophysical Survey over a Part of Gwalior and Shivapuri Districts of Madhya Pradesh.***
   Publication date: 2005. Issue: NGRI-Tech.Rep No: NGRI-2005-Exp-467(Restricted).
3. Title: ***High Resolution Multiparameter Airborne Geophysical Survey over north-Eastern parts of the Albitite line-Covering parts of Mahendragarh district of Haryana and Jhunjunu and Sikar districts of Rajasthan.***
   Publication Date: 2008 IssueNGRI-Tech.Rep No: NGRI-2008-Exp-635(Restricted).
4. Title :***High Resolution Multiparameter Airborne Geophysical Survey over a Part of Jharkhand and West Bengal for Uranium Exploration.***
   Publication date: 2010. ***Issue NGRI-Tech.Rep No: NGRI-2008-Exp-(Restricted).***

Peer-reviewed Journal Publications:

International Journals

Indian Journals

Expanded Abstracts: NIL

Abstracts:

Paper Presented in Seminars:

1. Title: ***The Role of GPS in High Resolution Airborne Geophysical Surveys IGU-2004.***

2. Title: ***Role of Multi-Frequency EM System in Acquiring High Resolution Data In Geo-Exploration- 17th International EM induction Conference.***

INVITED LECTURES: NIL

.Summary of Student Activities:

CURRENT STUDENTS

PAST STUDENTS

Dissertation Work:

1. ***Microcontroller based PPM data Logger:-***Final year Msc(Applied Electronics Students of RVS College, Coimbatore.
2. ***Automatic Voltage Battery Scanner:*** - II Year BE student of BITS, Pilani.
3. **Real Time GPS data acquisition** :(Design and written program in VB 6.0 to acquire the GPS data):- Final Year B.Tech Students of Malla Reddy college.
4. **Computerized based Battery Voltage Scanner**:- Final Year student of ICFAI Tech.
5. **Automatic distance detection using Infra red**;- Final Year Student of Msc(Applied Electronics), RVS College,Coimbatore

POST-DOCTORAL AND VISITING SCIENTISTS SPONSORED

EXTERNAL PROJECTS AS PL/CO-PL (PRESENT AND PAST)

Funding Agency	Project/Investigators	Amount	Period

Project Completed and Funding Agency:-

Sc.No	*Project Completed*	*Line Km Covered*	*ECF generated*
01	High Resolution Airborne Magnetic Survey for Kimberlite Exploration over Kalyandurg Area, Andhra Pradesh. ------- Sponsored by NMDC	18,000	3.6 cores
02	High Resolution Airborne multiparametric EM survey (Humming Bird frequency domain system) for Uranium Exploration in the parts of Gwalior and Shivpuri Districts. ------- Sponsored by AMD	5000	3.5 Cores
O2	High Resolution Airborne multiparametric EM survey (Humming Bird frequency domain system) for Uranium Exploration in the parts of Haryana and Rajasthan. ------- Sponsored by AMD.	7,700	2.5 Cores
02	High Resolution Airborne Time Domain (VTEM System) EM system for Uranium Exploration in the parts of Jharkhand and West Bengal(NSSZ and SSSZ. ..... Sponsored by AMD	19,200	16 Cores
03	High Resolution Airborne Time Domain (VTEM System) EM system for Uranium Exploration in the parts of Chhattisgarh and Orissa. ..... Sponsored by AMD	5800	