

## (Curriculum-Vitae)

### Personal Information

Name and Address: **Dr. Rajeev Ranjan Sinha,**

Assistant Professor,

P G Department of Physics,

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Father's Name : Dr. P.N.P. Sinha

Date of Birth : 28.11.1971

Sex : Male

Marital status : Married

Qualifications : M.Sc.,Ph.D

Career Progression:

Exam. Passed	School/College,Board/University	Subjects taken	Year of Passing	% of marks and div.
S.S. Exam. 1985	St. Joseph's School,Guhiajori,Dumka (BSEB,Patna)	Hn,Eng,Maths,Sc.,S.Sc.,Snk,Eco	1985	70.5%,1st
I.Sc. Exam.1987	S.P.College,Dumka,(BIEC,Patna)	Phy,Chem,Maths,Eng,Hindi	1987	72.5%, 1st
B.Sc.(Pass) Exam.1989	S.P.College, Dumka ( Bhagalpur University)	Physics, Chemistry, Maths	1990	67.6%, 1st
B.Sc.( Hons) Exam.1990	S.P.College, Dumka ( Bhagalpur University)	Physics	1992	68.7%, 1st
M.Sc.Exam. 1992	P.G.Deptt. of Physics, ( T. M. Bhagalpur University)	Physics	1994	60.0% ,1st
Pre Ph.D course	Nuclear Science Centre,N.Delhi	Material Science,Vacuum Techniques, Instrumentation and Control,Accelerator Physics,Data reduction and Data acquisition Techniques, Electronics etc.	1999-2000	

Ph. D	S K M University, Dumka	Physics ( Determination of Cosmogenic radio nuclides from the quartz samples of plateau region of India by AMS)	Awarded on 29.1.2009	
Bihar Eligibility Test for Lectureship 1997	Accredited by UGC , N. Delhi and conducted by Bihar State University Service Commission,Patna.	Physics	1998	

### Teaching Experience:

1. Lecturer in Physics at A.N. College,Dumka (Affiliated to SKMU,Dumka) since 11.07.1999 to 05.07.2001
2. Lecturer and Head, Deptt. of Physics, JJS College,Mihijam,Jamtara(Affiliated to SKMU,Dumka) since 06.07.2001 to 28.02.2008.
3. Assistant Professor, P G Deptt of Physics,S.P.College,Dumka( A Constituent unit under SKMU,Dumka) since 29.02 2008 to continued and also deputed as Head in Charge ,Deptt. Of Physics,S.P.Mahila College,Dumka since 05.08.2015.

**Current Job Profile :** Promoted to Assistant Professor ( Senior Scale) on 29.02.2012. Teaching up to post graduate level since 29.02.2008. Teaching- Quantum Mechanics, Statistical Mechanics, Solid State Physics, Heat & Thermodynamics, Mechanics etc. at UG & PG levels.

### Orientation Programmes:

65<sup>th</sup> Orientation Course organized by ASC,BRABU,Muzaffarpur from 30.10.2009 to 26.11.2009. Obtained Grade- A.

### Refresher Courses:

1. UGC sponsored Refresher Course in “ Experimental Physics” from 17.02.2011 to 09.03. 2011. Obtained Grade- A.
2. UGC sponsored Refresher Course in “Information Technology”(All Subjects) from 03.01.2015 to 23.01.2015. Obtained Grade- A.

### Research Guidance under the supervision of myself:

1. Ashok Kumar – Topic- “ A theoretical analysis of the experimental results of various cosmogenic radionuclides obtained in the quartz samples of hilly regions using Accelerator Mass Spectrometry.”- Thesis submitted to SKMU on 12.04.2016
2. Swapan Kumar Bera – Topic- “ A comparative study of production and decay of <sup>14</sup>C in some of the different hilly regions of India and other countries.”(Under my co-guidance at Jharkhand Rai University, Ranchi.) – Thesis likely to be submitted.

### Seminars- Attendance/Paper presentation.

1. Actively participated in State level seminar on “Mossbauer Spectroscopy – Principles and Applications” ( MSPA-2009)-8-9<sup>th</sup> September 2009.
2. Presented a paper (oral) entitled “ <sup>36</sup>Cl – A radioactive pollutant of ground water “ in UGC sponsored National Seminar on “ Water Pollution and its recent Challenges” organized by P G Department of Chemistry, SKMU, Dumka on April 29-30,2011.
3. As a resource person presented a paper “ Molecular fragment separation in AMS of heavy elements” in UGC sponsored multidisciplinary state level seminar on Atom,Nucleus and Nuclear forces organized by SBSSPSJ College, Pathargama,Godda,an affiliated unit of SKMU,Dumka on 29-30<sup>th</sup> April,2012.
4. Participated in “ Accelerator based Atomic and Molecular Physics Workshop” at IUAC,New Delhi during 8<sup>th</sup>-9<sup>th</sup> August 2012.
5. Presented a research paper on “ Development of CNTs : A milestone in Transistor technology” in one day Zonal Seminar on the topic of Nanotechnology on 2<sup>nd</sup> and 3<sup>rd</sup> September 2012 at Hotel Capitol Hill, Ranchi organized by IETE, Ranchi Centre.
6. Participated in 99<sup>th</sup> Indian Science Congress held at KIIT University, Bhubaneshwar from January 3-7,2012.
7. Presented (Poster) a paper entitled “ Nanoelectronic Applications of CNTs in the section of Physical Science during 100<sup>th</sup> Indian Science Congress held at Calcutta University, Kolkata from January 3-7,2013.
8. Participated in Science Academies’ Lecture Workshop on ‘ Recent Advances in Chemistry’ held at A.S. College, Deoghar , Jharkhand during March 16-17,2013.
9. Participated and presented a paper “ Production of cosmogenic radionuclides in the quartz sample of hilly regions” and “ Nanotechnology Revisited” in UGC sponsored National Seminar on Recent Trends in Physical Sciences( NSRTPS-2012) on 19-20 March ,2012.
10. Presented a paper on “ Major Challenges in Higher Education in Science” at the National Seminar on 15<sup>th</sup> December 2011,organized by P G Department of Political Science, S K M University ,Dumka.
11. Presented a paper on nanomaterials in the National Conference on “ Emerging Trends in Condensed Matter Physics”,(ETCMP-2013) ,Jan 17-18,2014 organised by University Deptt. Of Physics , T M Bhagalpur University, Bhagalpur.
12. Participated and presented a poster on my research work, “ A current study of data acquisition and analysis technique for AMS radiocarbon dating” in the International conference IC-CAST-2015 organised at BHU Varanasi, India during August 7-9 ,2015.
13. Presented a research paper on the topic “ Statistical Analysis of C14 radonuclides from groundwater samples of different regions and its importance in Carbon Dating.”in the National Seminar on Convergence of Science and Technology ( NSCST-2016), held on 19<sup>th</sup> -20<sup>th</sup> February 2016 at Cambridge Institute of Technology,Ranchi sponsored by DST, Jharkhand and TEQIP-II,MHRD, Govt.of India, New Delhi.

Publications(ISSN/ISBN):

1. Nandi, T. and Sinha, R. R., “ Accelerator Mass Spectrometry using 15 UD Pelletron at Nuclear Science Centre, New Delhi, NSCTR,40,2000-2001(2000).

2. Sinha, R.R. and Nandi,T.K , “ Determination of cosmogenic radionuclide  $^{36}\text{Cl}$  from quartz sample after separation from the isobars.” Acta ciencia Indica ,Vol.XXXIV P No. 2, PP 207 -212,2008 ( ISSN 0253-732X)
3. Sinha ,R.R., Kumar Ashok and Nandi,T.K., “ Analysis of impurity elements of semiconductors by an AMS system “ . Acta Ciencia Indica(Physics), Vol.XXXVIII P 3 PP.153-156,2012. (ISSN 0253-732X).
4. R. R. Sinha, S.K.Sinha, M. Murshaleen, Swapan Bera, Jaidev Mehta , Ashok Kumar, “Synthesis of Bismuth Ferrite nanoparticles by Sol- gel method and their characterization “ . IOSR – Journal of Applied Physics, eISSN-2278-4861,Vol. 7, Issue 1, Ver III.( Jan-Feb 2015),PP 44-47.DOI: 10.9790/4861-07134447.
5. Swapan Kumar Bera and Dr Rajeev Ranjan Sinha, “ Determination of  $^{14}\text{C}$  by Accelerator Mass Spectrometry: Status Update.” IOSR – Journal of Applied Physics, eISSN-2278-4861,Vol. 7, Issue 3, Ver III.( May-Jun 2015),PP 11-12.
6. Dr R.R.Sinha, “ Development of CNTs : A milestone in Transistor Technology” . Souvenir: Zonal Seminar on Nanotechnology :Invent the future.,organized by IETE, Ranchi Centre, 2-3 Sept.2012.( ISBN: 978-81-86845-85-2).
7. Rajeev Ranjan Sinha, Ashok Kumar and Swapan Kumar Bera, “ Comparative study of  $^{14}\text{C}$  dating of groundwater samples of different regions by AMS.” “. Acta Ciencia Indica(Physics), Vol.XLIP 4 PP.197-202,2015. (ISSN 0253-732X).
8. Swapan Kumar Bera, Dr Rajeev Ranjan Sinha, Dr Sanjeev Kumar Sinha, “Determination of  $^{14}\text{C}$  by Accelerator Mass Spectrometry of the groundwater sample of Dumka, a hilly region of Jharkhand, India and comparison with ground water samples of different regions with same depth.” IOSR – Journal of Applied Physics, eISSN-2278-4861,Vol. 8, Issue 3, Ver I.( May-Jun 2016),PP 27-29.

**Book:**

Edited Souvenir as Managing Editor of NSRTPS,2012.

**Administrative Experience:**

1. Permanent Tabulator in the Examination Deptt. Of SKMU, Dumka since 2009.
2. Asst. Public Relation Officer in S.P.College,Dumka in 2012-13.
3. Asst. Professor in charge, ( Time-Table), S.P.College,Dumka from 2012 to 2015.
4. Asstt. Controller of Exams.,Exam Section ,S P College, Dumka from 2013 to 2015.
5. Programme Officer ,Unit 6, NSS.,S P College, Dumka from May 2015 to Contd.
6. Head in Charge, Deptt of Physics , S. P. M . College, Dumka on deputation from 5.8 2015.

**Extra Curricular Activities:**

1. Co ordinator in NSRTPS -2012
2. Yoga Shivir on World Yoga Day,21<sup>st</sup> June 2015.
3. Managing Editor of the Souvenir, NSRTPS-2012.
4. Life member of Indian Science Congress Association, Kolkata.

**Signature**