Ashish Kumar Keshari, Male, Indian
DoB:November 26, 1976

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Career objective

To learn and work in an environment where I can get opportunity to show my abilities to achieve good results and come to the group expectation.

Areas of interest

- Applied Physics/Condense Matter
- Theoretical simulations on nanostructures
- Growth, Characterization and application of Electronic/Opto-electronic Materials, Semiconductors
- Development and Application of Nanotechnology for molecular/nano-electronics, Spintronics, electro-optical devices, Solid State Lighting (SSL), Solar Cell, Display technology and for Bio-medical applications
- Growth, Characterization and Application of Nanophosphorescence Materials
- Organic Electronics (OLED)
- LED design and fabrication, , Nanocrystals Imaging Systems
- Materials Characterization with XRD, SAXS, HRTEM, SEM, EDAX, SPM/AFM/STM, Nano-indentor, Raman spectroscopy, Transport Measurements, UV-Vis Absorption Spectroscopy, Photoluminescence spectroscopy, NSOM, DTA/TGA/TMA.

Experience summery

1. **February 13, 2010 Till date : Research/Faculty Associate** at School of Engineering, Gautam Buddha University, Grater Noida-201308
(Responsibilities: Courses design, Developments of Labs, Teaching, Research, academic and other administrative responsibilities)

2. March 29, 2005 to March 31, 2009: **Scientist** at Nanophosphor Application Centre, Faculty of Science, University of Allahabad, Allahabad – 211002.
(Responsibilities: Facility development, Application of instruments in characterizing nanostructured materials**,** Synthesis & Characterization of Nanophosphors/Semiconductor Nanocrystals (Quantum Dots)) /Conjugates of QDs with organic/bio-molecules for Nano-electronics, Opto-electronics Devices, Solid State Lighting, Display Technology and for Biomedical Applications), Advisor: Dr. Avinash C. Pandey

3. August 2004 to February 2005: Institute Fellowship at IIT Kanpur, Kanpur – 208016.
(Responsibilities: Design and Characterization of organic light emitting diodes)
Lab: SAMTEL CENTER FOR DISPLAY TECHNOLOGIES, Advisor: Prof. Y. N. Mohapatra

Research papers

1. International referred journals – 7 (published), 2 (submitted)
2. Conferences/Symposia/Workshop – 11 (paper presented), 4 (participated)

Education summery

1. Ph.D. in Science from University of Allahabad, India (Submitted in October 7, 2009), Thesis: **Quantum Confined Atom based Nanomaterials for their Application in Electronics, Opto-electronic Devices and in Biology,** Advisor: Dr. Avinash C. Pandey (Department of Physics, University of Allahabad)

2. M.Tech. (1st with Honors) in **Materials Science and Technology** department at **Institute of Technology, BHU**, Varanasi, India (Year 2004)
CGPA : 8.33/10 or 83.3%
Thesis: *Design of a Microwave absorber in X-band having wedge-tapered absorber arrays with coating of resin-ferrite composite.*
Advisor :Prof.B R Vishvakarma (Dept. of Electronics Engg., IT-BHU, Varanasi)
Project: *Design & Characterization of (Ba, Sr) TiO3 based Capacitors.*
Advisor: Prof. Dhananjai Pandey/Dr. Rajiv Ranjan (School of Materials Science & Technology, IT-BHU, Varanasi)

3. M.Sc. in **Physics (Gold Medalist, 1st divison)** with specialization in **Electronics** from **University of Allahabad,** Allahabad, India (Year 2001)
Scholastic Average : 68.55%

4. Bachelor in Science (PCM) from **University of Allahabad** (1999)

TECHNICAL SKILLS

1. Instruments Handling: Rigaku X-ray Diffractometer (**SAXS & WAXS**), Electron microscopy (Tecnai G^2 30 and FEI Quanta 200), SPM (Nanonics Imaging), Photoluminescence spectroscopy (Perkin Elmer), UV-Vis absorption spectroscopy (Perkin Elmer), Raman spectroscopy (Renishaw), Nano-indentor (CSM Instruments), DTA/TGA /TMA (Perkin Elmer) etc. Vacuum Coating Units, Patterning of ITO, OLED design and fabrication, Spin coating unit, Homogenizer, Ultracentrifuge, Working experience in class 1000 clean room and in Lithography lab.

2. Diploma in Computer Programming and System Applications
DOS, Windows 2000/XP, Linux, MS-Office, LAN, dBASE, FoxPro, C/C++, Internet

ACADEMIC ACCOMPLISHMENTS

1. Received two Gold-Medals for securing highest marks in M.Sc final and M.Sc electronics branch respectively.
2. Participated in **'4th Advanced School on Nanoscience and Technology**' on **'Nanolithography'** during January 12-24, 2009 at S.N. Bose National Centre for Basic Sciences, Kolkata sponsored by DST, India
3. GATE score: 93.19 percentile (**136 all India rank**), AICTE, MHRD Scholarship (2002-2004)
4. **Vice-president** of Physics society at University of Allahabad (2008-09)

REFERENCES

Dr. R. N. Bhargava	**Prof. Avinash C. Pandey**	**Dr. R. J. Choudhary**
Nanocrystals Technology	Principal Investigator	Sr. Scientist
P.O.Box 820, Briarcliff Manor	Nanotechnology Application Centre,	UGC-DAE Consortium for Scientific Research
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