

AQEEL AHMED SHAH

Department of Metallurgical Engineering,
NED University of Engineering and Technology,
University Road, 75270, Karachi, Pakistan.

Contact: +92-333-2765156

Email: aqeelshah@neduet.edu.pk

ACADEMIC BACKGROUND

Degree : MS-Engineering **CGPA :** 3.44/4.0
Study Duration : August 2008 to June 2010
Field of Study : **Nanotechnology (Fine Chemical Engg.)**
Research Area : **Semiconductor Nanowire Fabrication, characterization and analysis.**
Institution : **Hanyang University** Ansan, Korea (South)

1st Division

Study Duration : Post Graduate Diploma (PGD) 2007-2008
Field of Study : Chemical Engineering
Institution : Mehran UET Jamshoro

Degree : Bachelor of Engineering **CGPA :** 3.30/4.0
Study Duration : 2003 to 2006
Field of Study : **Metallurgical and Materials Engineering**
Institution : **Mehran University** of Engineering and Technology Jamshoro, Pakistan

ACADEMIC EXPERIENCE

- **Assistant Professor** Metallurgical Engineering Department, NED University Of Engineering And Technology, Karachi, Pakistan **May 2016 to date**
- **Lecturer** Metallurgical Engineering Department, NED University Of Engineering And Technology, Karachi, Pakistan **20-09-2010 To May 2016**

Courses Taught Fundamentals of Metallurgical Engineering
Mineral Processing, Non Ferrous Extractive Metallurgy, Metallurgy of Iron Production

Additional Responsibility Class Advisor of First year and Third year undergraduate students
ISO Area coordinator of Metallurgical Engg Department, NED UET

- **Teaching Assistant** Metallurgical Engineering Department, Mehran University Of Engineering And Technology, Jamshoro, Pakistan **September 2007 To June 2008**

Courses Taught Introduction To Materials Science and Engineering
Mineral Dressing

PROFESSIONAL EXPERIENCE

- **Research Associate** at Semiconductor Nano-processing Lab: <http://snpl.hanyang.ac.kr>
Division of Materials and Chemical Engineering, Hanyang University, Ansan South Korea
with effect from **August 2008 to June 2010**

Major Responsibilities: Fabrication of Si and Si_{1-x}Ge_x nanowires by VLS mechanism and characterization of the developed wires by high resolution SEM, TEM (with EDS facility), and analyzing the optical response of the wires by using Varian Cary 5000 UV/VIS/NIR spectrophotometer.

UNDERGRADUATE PROJECTS SUPERVISED

- To study the Fabrication of Si nanowires by VLS mechanism
- To increase the Hardness of commercially pure Aluminium by using Traditional Metallurgy

DISTINCTION AND AWARDS

- Awarded by Higher Education Commission with Scholarship for MS-Engg. (South Korea)
- Secured 2nd position in B.E

PROJECTS AND INTERNSHIPS

- Worked for Projects of different Organizations during my MS at Korea, including:
 - Korean Ministry of Knowledge Economy (MKE)
 - Korea Institute of Energy Technology Evaluation and Planning (KETEP)
 - Pioneer Research centre for Solar Thermal Conversion Nano devices
- Internship at HMC taxila, Pakistan (June 2006)
I worked as an internee in different metal working shops including Cast iron foundry, NDT laboratory, Assembly shop, Forging unit, Heat treatment shop and Material testing Labs.

PROFESSIONAL SKILLS

Operating Systems	Microsoft WINDOWS XP/VISTA/WIN 7.
Softwares	MS-Office, Origin Pro , Win lab Data processor and Viewer, Smart Draw
Application	Microsoft Word, Excel, Publisher and Power Point.

PUBLICATIONS

- Journal** **Aqeel A.Shah.**, et al, “Fabrication of Si-Ge nanowires for solar cell applications”; NUST Journal of Engineering Sciences, Vol 3 No. 1, 2010, Pakistan
- Conference**
1. **Aqeel A.Shah.**, et al, “Optical property of the fabricated Si_{1-x}Ge_x nanowires”., 6th *IEEE* International Conference on Emerging Technologies (ICET2010), Islamabad, Pakistan.
 2. **Syed Abdul Moiz** et al. “Effect of Silver-Nanoparticle Concentration on the Optical Response of the Conducting Polymer Thin Film Deposited by Spin-

Coating Method”, The 37th International Symposium on Compound Semiconductors(iscs2010), Kagawa, Japan

FINAL YEAR THESIS/PROJECT

MS-Thesis: VLS growth of Ni Catalyzed Si_{1-x}Ge_x Nanowires

This thesis focuses on the Fabrication of Si_{1-x}Ge_x Nanowires by using Vapor Liquid Solid (VLS) mechanism by varying the different parameters of temperature, time and amount of precursors inlet ratio. The wires were grown successively by changing all of the parameters. The wires were then characterized by SEM, TEM and Varian Cary 5000 UV/VIS/NIR spectrophotometer to investigate the optical absorption capability.

PERSONAL INFORMATION

Father's Name:	Abdul Ghani shah	Date of Birth:	1 st August, 1984
Nationality:	Pakistani	Marital Status:	Married
Religion:	Islam	PEC Reg: No:	Metal/1975
Nationality:	Pakistan		

LINGUISTIC SKILLS

English : **IELTS 6.5 (Expiry September 2015)**
Completed my 18 years of education in English as a medium of instruction.
Delivered various presentations in English.

Urdu : Efficiency in speaking and writing as a maternal language.

REFERENCES

Name	: Dr. Jung-Ho Lee
Designation	: Professor (Division of Materials and Chemical Engineering)
Phone Number	: +82-31-400-5278
E-Mail Address	: jungho@hanyang.ac.kr
Institution	: Hanyang University Ansan Korea (South)
Name	: Dr. Syed Abdul Moiz
Designation	: Associate Professor, Department of Electrical Engineering
Phone Number	: +96-62-527-0000 Ext: 1070
E-Mail Address	: Moiz_pak@yahoo.com
Institution	: Faculty of Engineering & Islamic Arch. Umm-ul-Qura University, P.O Box: 5555 Makkah, Saudi Arabia
Name	: Dr. Zhongyi Guo
Designation	: Professor (Ex-Colleague in SNPL at Hanyang University, S-Korea)
Phone Number	: +92-3343415427
E-Mail Address	: guozhongyi@hfut.edu.cn
Institution	: School of computer and information, Hefei University of Technology, Hefei, China