

Haamun Kalaantari

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OBJECTIVE

Desire a position (or an internship) in Mechanical and Materials Science Engineering with Materials Characterization and Processing, Materials Selection, Recognition and Selection of Metallic Materials Manufacturing Methods and Product Engineering positions i.e: Metal forming (Rolling Mill Shops, Die & Open Forging, Stamping and Cutting die design, Deep Drawing die design, Extrusion), Welding and Joining Metallurgy, Surface Engineering and etc. My research interests also include: Ferromagnetic Shape Memory Alloys (FSMAs), Advanced Materials, Rapid solidification through Electromagnetic Levitation, Graphene and Graphite growth from melt, Biomaterials, Mechanical properties of Materials, Investment Casting and Composite Materials.

EDUCATION

- Ph.D. candidate in Mechanical Eng. Dept., University of California Riverside (UCR), A342 BCOE,CA 92521,USA (Jan. 2008-now)
- M.Sc. in Metallurgical and Materials Science Engineering with specialty in Recognition and Selection of Metallic Materials Manufacturing Methods, Iran University of Science and Technology (IUST), Tehran, IRAN. (Oct. 1993-June1996)
- B.Sc. in Metallurgical and Materials Science Engineering, majoring in Metals Forming, Sharif University of Technology (SUT), Tehran, IRAN. (Oct. 1988-June 1993)

HONORS & AWARDS

- 1- 2nd Place in Electron Microscopy-Scanning, 2010 International Metallographic Contest, Portland, Oregon, USA, Sept. 2010
- 2- Graduate Division Fellowship Award, University of California Riverside(UCR), A342 BCOE,CA 92521,USA Jan. 2008
- 3- The 1st rank graduate in M.Sc. degree, Iran University of Science and Technology (IUST), Tehran, IRAN, June 1997.
- 4- Paper award for seminar presentation in the first annual congress of Iranian Metallurgical Engineers Association, Tehran, IRAN, 20-22 Oct. 1997.
- 5- Company award for lecturing at ESCO Engineering & Technical Institute, Mechanical Dept, Esfahan, IRAN, May 2001.

TRAINING

- 1- The Quality Control Training Course (QCTC), The Association for Overseas Technical Scholarship (AOTS), Osaka, JAPAN, from 18 Feb. 2004 to 9 March 2004.
 - 2- Welding Remarks in Pressure Vessels (ASME Section 8), Iranian Welding and Nondestructive Tests Association (IWNT), Tehran, IRAN, 9 June 2003.
 - 3- 4th Conference of Quality Managers, Iran Quality Control Association, Islamic Presidents Conference Hall, Tehran, IRAN, 14-15 July 2003.
 - 4- Production line training program (level III) at Esfahan Steel Company (ESCO), Plan & Development Dept, Plant Engineering Management, Rolling Division, 45 Km Zob Ahan Highway, Esfahan, IRAN
- TEL: 0098-334257-5042 FAX: 0098-311-3322258, website: <http://www.esfahansteel.com>

PROFESSIONAL EXPERIENCE

-Teaching assistant; Experimental Techniques, Mechanical Behavior of Materials, University of California Riverside, A342 BCOE, Riverside, CA 92521, USA (Jan. 2008-now)

-Senior Expert of Steel Industries at Iranian Mines and Mining Industries Development and Renovation Organization(IMIDRO) ,Steel affairs Dept., No.43, before Somaieh St., Sepahbod Gharanee St.,Ferdowsi Square, Tehran, IRAN. (as an agent from ESCO , Sept. 2003-January 2008),website: <http://www.imidro.org>

-Quality Control Manager at Press Iran Company (PIC), Q.C. Dept., No.2, 8th St., Nobakht St., Apadana Ave. , 15547 Tehran, IRAN. (as an agent from ESCO, Dec. 2002-Sept. 2003)

-Plant and Project Chief Engineer at Esfahan Steel Company (ESCO), Plan & Development Dept., Plant Engineering Management , 45 Km Zob Ahan Highway, Esfahan , IRAN. (May 1997- Present) , website: <http://www.esfahansteel.com>

Responsible for reconstruction and modernization of Rolling Mill Shops with collaboration of POMINI Company of ITALY, SAMSUNG Company of KOREA and MME Company of GERMANY.

Also reconstruction and repairing of Blast Furnaces No. I & II with collaboration of GIPROMEZ Consultant Company of RUSSIA and DANGO (DDS) Company of GERMANY. (May 1997-Present)

-Researcher at Iranian Research Organization for Science & Technology (IROST) , Materials Dept., No. 71 Forsat St , Enghelab Ave , P.O.BOX 15815-3538 , Tehran-15819 , IRAN.

Responsible for Vacuum Centrifugal Investment Casting for thin wall and small Titanium (Ti) parts project for application in Biomaterials Prosthesis i.e. in vitro and vivo, hip joints, knee joints. (Dec.1993-May 1997)

-Lecturer of Materials Selection course at GHAZVIN University at Industrial Engineering Dept., Ghazvin, IRAN (Oct. 1996-Jan. 1996)

-Lecturer of Thermal Distribution in Welding and Metal Forming (Hot & Cold Working) at ESCO Engineering & Technical Institute, Mechanical Dept., Esfahan, IRAN. (Dec. 1997-present)

-Undergraduate LAB assistant at Sharif University of Technology at Metallurgical and Materials Science Engineering Dept., Tehran, IRAN. (Oct. 1992-June 1993)

Responsibilities: prepared and supervised lab testing, assisting students in following labs:

- 1- Metal Forming Laboratory
- 2- Mechanical Metallurgy Laboratory

-Undergraduate LAB assistant at Iran University of Science and Technology at Metallurgical and Materials Science Engineering Dept., Tehran, IRAN (Oct. 1994-June 1996)

Commissioning of VIM Furnace in laboratory, prepared and supervised lab testing equipment and assisting students in performing experiment and evaluating their performance in:

- 1- VIM Laboratory
- 2- Mechanical Metallurgy and Metal Forming Laboratory

COMPUTER PROFICIENCY

Familiar with the latest computer analytical techniques available to engineering. Extensively used Microsoft software for PCs, VAX main frame and Networking computers system, LabView, Fortran 77, MATRIX x , Excel, MS office 7, 2007,Vista & XP, MS Project , Netscape , AUTO CAD with Windows 2007, 7 & NT programs.

SPECIAL SKILLS

Experience using Electromagnetic Levitation System, Induction melting and VIM methods for Titanium and active metals Investment Casting and familiar with XRD, XRF, TEM, SEM, DTA,DSC, VSM, SQUID,etc and various Metallography Methods and Techniques for Analyzing, Testing and Case Study on all Metallic Materials.

PROJECTS & PUBLICATIONS

- 1- Haamun Kalaantari, Investigating the Effects of Bulk Supercooling and Rapid Solidification on Co-Ni-Ga Ferromagnetic Shape Memory Alloys, Journal of Materials Science, submitted.
- 2- Haamun Kalaantari, Effects of Bulk Supercooling and Rapid Solidification on Co-Ni-Ga Ferromagnetic Shape Memory Alloys, MS&T 2010 Conference & Exhibition, October 17-21, 2010, Houston, TX, USA
- 3- Shaahin Amini, Haamun Kalaantari, Crystal Growth of Nano-Layer Graphite from a Molten Phase, MS&T 2010 Conference & Exhibition, October 17-21, 2010, Houston, TX, USA
- 4- Shaahin Amini, Haamun Kalaantari, Growth of Graphite Nano Thin Films from a Molten Phase, Journal of Materials Science, accepted.
- 5- Shaahin Amini, Haamun Kalaantraj, On the Precipitation of Curved Graphite from a Metallic Solution, Journal of Carbon, to be submitted
- 6- Microstructure and Mechanical Properties of Titanium Centrifugal Investment Casting Parts for Implant Fabrication, 40th Rocky Mountain Bioengineering Symposium, 26-28 Feb. 2003, Biloxi, MS, USA .
- 7- Titanium Centrifugal Investment Casting Seminar, presented in the first annual congress of Iranian Metallurgical Engineers Association, 20-22 Oct. 1997, Tehran, IRAN.
- 8- On the Evaluation of Mechanical Properties of Titanium Centrifugal Investment Casting Parts, Steel Journal, part 1 Volume 35, Jan 1998 and part 2 Volume 36, Feb 1998.
- 9- The Survey on Microstructure and Mechanical Properties of Titanium Centrifugal Investment Casting Parts, M.Sc. Thesis, Dec. 1996 .
- 10- State of the art Reconstruction and Development of VIM Furnace with Centrifugal Moving System at IROST, July 1994 -Nov. 1996 .
- 11- Evaluation of Strain Distribution on the Necking Point at the Seamless Al and Cu Tubes , B.S. Thesis, Jan. 1993- Oct. 1993 .