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## CURRICULUM VITAE

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### Professional Summary

An assistant professor with solid background in Mechanical Engineering, Materials Science and manufacturing with more than 8 years experience in academic teaching and designing and developing curriculum at university level

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### Education

PhD, Chalmers University of Technology, Gothenburg, Sweden 1999 - 2004  
PhD degree in materials science and engineering  
I did my PhD studies in the field of powder metallurgy (liquid phase sintering)  
Thesis: Tailoring of liquid phase sintering and microstructure of sintered steel

Chalmers University of Technology, Gothenburg, Sweden 1997-1999  
Master of Science in materials science and engineering  
Thesis: Metalized Plastics for Space Applications

Jordan University of Science and Technology, Irbid, Jordan 1991 - 1996  
Bachelor's degree in mechanical engineering (162 credit hours)

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### Work Experience

Jordan University, Amman, Jordan 2012-present

**Dalarna University**, Borlänge, Sweden 2009-2012  
I was employed at Dala University in June 2009 as an assistant professor at the department of Material Science.  
Activities and main responsibilities: Teaching and research activity in Materials Science and Manufacturing

**Hashemite University**, Zarqa, Jordan 2004-2009  
I was employed at the Hashemite University in October 2004 as lecturer at the department of Industrial Engineering.  
Activities and main responsibilities Teaching and research projects in national and international research programs.

## Teaching Activities

### *Undergraduate Courses Taught at Dalarna University:*

- |   |                      |
|---|----------------------|
| 1-Perspective on Material Design              | (Fall09, F10, F11)   |
| 2-Intermediate Project in Materials Design    | (Winter10, W11, W12) |
| 3-Heat Treatment and Furnace Technology       | (F09, F10, F11)      |
| 4-Fabrication Processes                       | (F10)                |
| 5-An Introduction to Engineering Materials    | (F09)                |
| 6- Material Selection and Surface Engineering | (W09, W10, W11)      |

### *Graduate Courses Taught at Dalarna University:*

- |   |                   |
|---|-------------------|
| 1-Joining Technology  | (F11)             |
| 2-assisted in teaching Perspectives on the Role of Materials during Plastic Forming-project based | (F11 (assistant)) |

### *Undergraduate Courses Taught at Hashemite University:*

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|---------------------------|--|
| 1-Workshop Technology     | (F04, W04, F05, W05, F06, F07, F07, F08) |
| 2-Manufacturing Processes | (W06, W07, W08)                          |
| 3- Materials Science,     | (F04, W04, F05, W05 F06,W06)             |
| 4-Engineering Economy,    | (F04)                                    |
| 5- MetrologyLlab          | (W07)                                    |
| 6- Material Lab           | (F04, W04, F05, W05, F06, F07, F07, F08) |

### *Graduate Courses Taught at Hashemite University:*

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|--------------------------------------|------------|
| 1- Special topics in NDT             | (W07)      |
| 2-Advanced materials                 | (F07)      |
| 3-Materials structure and properties | (F07)      |
| 4-Industrial Radiography             | (W07, W08) |
| 5-NDT techniques                     | (F08)      |

### *Undergraduate Courses Taught at The University of Jordan:*

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|---------------------------|--------------------------------|
| 1-Machine Design          | (F13, W14, F14, W15, F15, W16) |
| 2-Facility Planning       | (F15)                          |
| 3- Engineering Polymers   | (W13, F13, W14, F14)           |
| 4-Manufacturing Processes | (F13)                          |
| 5-Materials Science       | (W15, F15, W16 )               |

### *Training Courses:*

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|------------------------------|------------|
| 1-Underground sewage systems | Dubai 2007 |
| 2-Human Factors              | Dubai 2009 |

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## Publications

- 1-W. Khraisat, N.A. Rawashdehb, , L. Nyborgc, Visualizing shear bands in 3-D using axisymmetric sample: An experimental study, Journal of King Saud University - Engineering Sciences, doi:10.1016/j.jksues.2015.10.006
- 2- M. Hayajneh, M. AL-Tahat, S. Alshobaki, W. Khraisat

- , An Investigation for the Potential of Improving the Performance of Pattern Making Process in Steel Foundries: Case Study, Applied Mechanics and Materials, DOI: 10.4028/www.scientific.net/AMM.575.900.
- 3-W. Khraisat, Graphite Pore-Filling and Surface Blistering of Sintered Fe-C-Si, powder metallurgy, Vol 55, Number 3, July 2012 , pp. 242-247(6).
  - 4-M. Hayajneh, M. Al-Tahat, W. Khraisat, S. Alshobaki, Experimental Investigation for the Elimination of Heat Treatment Related Distortion for the Production of 'Grizzly Bar' Casting Made of (12-14) % Manganese Steel, Proceedings of the 4th International Conference on MANUFACTURING ENGINEERING, QUALITY and PRODUCTION SYSTEMS (MEQAPS '11), Barcelona, Spain September 15-17, 2011, Published by WSEAS Press
  - 5-W. Khraisat, W. Abu Jadayil, Strengthening Aluminum Scrap by Alloying with Iron Jordan Journal of Mechanical and Industrial Engineering Volume 4, Number 3, June, 2010
  - 6- W. M. Abu-Jadayil, W. Khraisat, Predicting the Optimum Hallowness of Normally loaded Cylindrical Rollers Using Finite element analysis, Materials Science and Technology, published online 2009, DOI: 10.1179/174328408X389724
  - 7-W Khraisat, H Borgström, L Nyborg, W abu al Jadayil, Optimising Grey Iron Powder Compacts Accepted by Powder Metallurgy, appeared online, November 24, 2008.
  - 8- P. Romano, O. Lyckfedto, W. Khraisat, Water based processing of iron powder utilising starch consolidation, Powder metallurgy, 2005, vol. 48, no2, pp. 156-162
  - 9-W. Khraisat, L. Nyborg, Grey Iron Microstructures via Liquid-phase Sintering, International Journal of Powder Metallurgy, 41 (6), 34-41, 2005.
  - 10-W. Khraisat, L. Nyborg, P. Sotkovszki, Effect of Silicon, Vanadium and Nickel on Microstructure of Liquid Phase Sintered M 3/2 grade High Speed Steel, Powder Metallurgy, 48 (1), 33-38, 2005.
  - 11-W. Khraisat, L. Nyborg, Effect of Carbon and Phosphorus Addition on Sintered Density and Effect of Carbon Removal on Mechanical Properties of High Density Sintered Steel Materials Science and Technology, 20 (6), 705-710, 2004
  - 12-W. Khraisat, L. Nyborg, Liquid Phase Sintering of Ferrous Powder by Carbon and Phosphorus control Powder Metallurgy, 46 (3), 265-270, 2003.
  - 13-W. Khraisat, L. Nyborg, Danqing Yi and Yang Yu, Proc.Int. Conf. KOYOTO 2000, Koyoto, Japan, Nov. 12-16, 2000. Vol. 1. pp. 709-712, Koji Kosuge, Hiroshi Nagai.
  - 14-L.Nyborg, W. Khraisat, Proc. Int. Conf. EUROMAT 99, Munich, Germany, Sep. 27-30, 1999, vol. 8, pp. 222-228, J.V.Wood, L. Schultz, D. M. Herlach EDS. (Wiley-VCH, Weinheim, Germany, 2000)

### Working Papers

- 15- W. Khraisat, S. Mesmar, Y. Al Zain , Microstructure and Mechanical Properties of GMAW Welded Dual Phase 1000 Steel, Submitted to Alexandria Engineering Journal [under review]
- 16- W. Khraisata, N.A. Rawashdehb and H. Borgström, The role of Phosphorus in pore rounding of sintered steels:Theoretical considerations, Submitted to Powder Metallurgy [under review]

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### Projects

- 1-Sinter Machining (completed)  
A project funded by the Swedish Research Council (Vetenskapsrådet ([www.vr.se](http://www.vr.se))).

This project was a joint project between Hashemite University and Chalmers University.

Role: Applicant/Principal Investigator (with Prof. Lars Nyborg)

The number of the project is 348-2005-6263

For further details:

<http://www.vr.se/forskning/bidragsbeslut/sida.jsp?resourceId=-265>

#### 2-AEICO project (completed)

A Joint project between Hashemite University, Just University and Jordan University.

This project was funded by the higher council of education in Jordan.

Role: Principal Investigator

The project aim was to give consultancy to a Jordanian steel company in heat treatment and cost related issues.

#### 3-ANROLL (completed)

A joint project between Dalarna University and two major Swedish steel companies (Sandvik and Uddeholm).

Role: Co investigator (with Prof. Göran Engberg as principle investigator)

The project aims to develop a model of the microstructural evolution of 304- and 316- steel where test modeling of grain growth and flow stress in hot compression is included.

### Others

**Competencies and technical skills:** User of technical equipments specific to the above mentioned domains: SEM, Tensile testing machine, Auger electron spectroscopy and the CAD CAM package Creo 2.

**Language skills:** Swedish (fluent), English (fluent) and Arabic (fluent)

**Computer skills:** Microsoft Office good experience with Excel, Word and Power point and Thermo-calc program used for thermodynamics, Solid works (basic level)

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### References

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