

September, 2023

## *Curriculum Vitae*

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### ▪ **Personal Details**

**Name:** Faeze Barzegar

**Date of Birth:** February 20<sup>th</sup>, 1989

**Place of Birth:** Mashhad, Iran

**Sex:** Female

**Marital Status:** Single

**Current Status:** Research member and QA Manager of Academic Center for Education, Culture and Research

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### ▪ **Educational Background**

Ferdowsi University of Mashhad, Iran, (2021-9 to now).

**PhD student of Materials engineering**

Ferdowsi University of Mashhad, Iran, (2011-9 to 2014-2).

**M.Sc. Materials engineering / Corrosion and Protection of Materials**

Ferdowsi University of Mashhad, Iran, (2007-9 to 2011-8).

**B.Sc. Materials engineering / Industrial Metallurgy**

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## ▪ Academic projects

**M.Sc. Thesis:** "The effect of cold rolling on adsorption behavior of Pyridine-2-thiol as corrosion inhibitor on mild steel in sulfuric acid solution"

Supervisor: *Prof. Mohammad Hadi Moayed*

**B.Sc. Thesis:** "The measurement of corrosion rate of mild steel in an inhibited acidic solution by Harmonic Analysis technique"

Supervisor: *Prof. Mohammad Hadi Moayed*

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## ▪ Publications

### Journal papers

1. Ebrahim Karimi, **Faeze Barzegar**, Ahmad Moloodi, Rasool Zolfaghari, "Hardness and Compressive Properties of Open-Cell Nickel Foam Reinforced by Nano-SiC Particles", *Metallurgical and Materials Transactions B*, 52.5 (2021): 3439-3446.
2. Akram Salehi, **Faeze Barzegar**, Hossein Amini Mashhadi, Samira Nokhasteh, and Mohammad Sadegh Abravi. "Influence of Pore Characteristics on Electrochemical and Biological Behavior of Ti Foams." *Journal of Materials Engineering and Performance* 26, no. 8 (2017): 3756-3766.
3. Akram Salehi, Ahmad Moloodi, **Faeze Barzegar**, and Jalal Mirabbasi. "The Effect of Sintering Condition on Microstructural and Mechanical Properties of Porous Nickel." In *Materials Science Forum*, vol. 933, pp. 11-16. Trans Tech Publications, 2018.
4. **Faeze Barzegar**, Ahmad Moloodi, Akram Salehi. "An investigation on the effect of sintering conditions on mechanical behavior of electroplated open-cell nickel foams." *Transactions of Nonferrous Metals Society of China*, Elsevier.
5. Akram Salehi, Ahmad Moloodi, **Faeze Barzegar**. "Numerical simulation and experimental study of porous titanium implants under compressive loading conditions", *Journal of Materials Engineering and Performance*. (Accepted)

### Conference papers

1. Akram Salehi, **Faeze Barzegar**, Ahmad Moloodi, Characterization of porous titanium implants produced by 3D printer technique, 6th Cellular Materials – CellMAT 2020.
2. **Faeze Barzegar**, Akram Salehi, Ahmad Moloodi, The microhardness and microstructure studies on the sintered open-cell nickel foam, 6th Cellular Materials – CellMAT 2020.

3. A. Salehi, S. Nokhasteh, M.S. Abravi, H. Amini Mashhadi, **F. Barzegar**, A. Moloodi. "The response of osteoblasts to nanocrystalline coated fluorohydroxyapatite thin films on Ti scaffolds." 6th International Conference on Nanostructures (ICNS6), 2016.

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### ▪ **Work experience**

- Taftan Azarkar Co., Mashhad, Iran. (2010- 3 months )  
Position: Internship in QC unite of heat treatment part
  - Niavand technology group. Ferdowsi University of Mashhad, Center for the Development of Technology Units, No. 1, Unit 103. (2015-2017)  
Position: Researcher
  - Yekta Corrosion Control Co. Ferdowsi University of Mashhad, Center for the Development of Technology Units No. 1, Unit 107. (2017-present)  
Position: Researcher
  - Materials Research Group, Iranian Academic Center for Education, Culture and Research (ACECR), Mashhad Branch, P.O. Box 91779-49367, Mashhad, Iran.  
Position: Research member and QA manager (2014-present)
  - Pishgaman Fan Afarin Fardad Co (knowledge-based), Science and Technology Park of Mashhad  
Position: QA Manager (2021-present)
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### ▪ **Research interests**

- Material science
  - QA and QC Management
  - Marketing Management
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### ▪ **Certificates**

- Corrosion Management workshop, (13-15 May 2018). Teacher: Prof. Ali Morshed.
- New plating process, 16 hours, 13-14 Nov. 2019, Sharif Jahaddaneshgahi Organization.

- Skills and Techniques of management of problem solving, 12 hours, 24-26 Jun. 2021, Kavoshgaran Co.
  - Business process management (BPMN, BPMS, BPM), 16 hours, 13-16 Jun. 2021, Kavoshgaran Co.
  - Quality management system audit based on ISO 9001, 12 hours, 2-5 Feb. 2021, Kavoshgaran Co.
  - Management and performance evaluation of employees, 12 hours, 14-16 Feb. 2021, Kavoshgaran Co.
  - Knowledge Management based on ISO 30401:2018, 12 hours, 20-24 Jun. 2021, Kavoshgaran Co.
  - QA Master (quality Assurance Management), 55 hours, 2 Jun-6 Feb 2021, BRS Co.
  - Human resource development with approach of creating a learning culture, 8 hours, 6 Sep. 2021, BRS Co.
  - Strategic Management, 8 hours, 2 Des. 2021, BRS Co.
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### ▪ **Language Proficiency**

**Persian/Farsi:** Native

**English:** Already registered for IELTS exam.

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### ▪ **National Patents**

- Fabrication of porous titanium implants coated with fluorohydroxyapatite for medical applications, registration No. 92933, 1396.
  - Production of porous dental implant by precise casting method, registration No. 103602, 1399.
  - Production of irregular porous implant by SLM method, registration No. 103600, 1399.
  - Open cell metal foam as internal silencer for use in gas pressure reduction stations, registration No. 103198, 1399.
  - The production process of Ni/Al hybrid foam by electroplating on aluminum substrate, registration No. 95504, 1397.
  - Open cell copper metal foam by deposition method in a modified bath, registration No. 103200, 1399.
  - Open cell Nano-composite nickel foam by pulsed electroplating method in modified Watts's bath, registration No. 103345, 1399.
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## ▪ **References**

- **Prof. Mohammad Hadi Moayed**, Metallurgical and Materials Engineering Department, Faculty of Engineering, Ferdowsi University of Mashhad, Mashhad, Iran.  
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