

PERSONAL INFORMATION

Somayyeh Rakhshani



POSITION APPLIED FOR

Candidate for Job assignment

EDUCATION AND TRAINING

2017-2020

Master of Science (M.Sc.), Nanotechnology Engineering

Sapienza University of Rome, Italy

- **Thesis:** Transparent Selective Contact Layers for Heterojunction Solar Cells On Crystalline Silicon.
- **Related courses:** Nanotechnology electronic, MEMS, Nano-electronic Laboratory, Electron microscopies and related techniques and Optics.
- **Final grade:** 106/110

2004-2007

Master of Science (M.Sc.), Nuclear Physics

University Of Arak, Arak, Iran

- **Thesis:** The Shield Analysis of Irradiation Room for FDG and Kr-81m Production and Additional Shield Design Considering the ALARA Philosophy.
- **Related courses:** Advance nuclear physics, Advanced quantum mechanics, Computational physics, Electrodynamics.
- **Final grade:**14.7/20

2000-2004

Bachelor of Science (B.Sc.), Applied Physics

Islamic Azad University – Mashhad Branch, Mashhad, Iran

- **Related courses:** Electronics, electronics lab, solid state physics, crystallography, physics of semi-conductors.
- **Final grade:**15.87/20

WORK/ RESEARCH EXPERIENCE

9/2019 – 5/2020

Trainee

ENEA (Italian national agency for new technologies, energy and sustainable economic development) research center, Casaccia, Rome, Italy.

- Material and optoelectronic characterization of Si- based heterojunctions
- Wet chemical treatment
- Thin film deposition techniques

Business or sector: National research center

4/2008 – 9/2017

Technology Evaluation Expert

Research Affairs Office, Nuclear Science and Technology Research Institute, Tehran, Iran.

- Evaluation and supervision of research projects and proposals
- Cooperating in shield design/analysis projects for irradiation systems
- Safety and Risk assessment

9/2007 – 2/2008 **Teacher**

- Teaching Physics at SAMA Technical School, Mashhad, Iran.
- Teaching Physics at Art and Architectural Faculty, Azad University of Mashhad, Iran.

PERSONAL SKILLS

Mother tongue(s) Persian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
Italian	A2	A2	A1	A1	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

IT and Technology Microsoft Office (Word, Excel, Power point), Origin Lab (graphing and data analysis)
 MATHCAD (engineering calculations), MATLAB (Programming)

Other skills Team work spirit
 Good communication skills
 Duty Commitment, Hardworking, Precision, Patience

ADDITIONAL INFORMATION

Poster Presentations F. Menchini, L. Serenelli, S. Rakhshani, L. Martini, A. Latini, G. de Cesare, D. Caputo, E. Salza, G. Stracci, M. Izzì and M. Tucci, "LITHIUM DOPED NICKEL OXIDE AS HOLE TRANSPORT LAYER FOR HETEROSTRUCTURE SOLAR CELLS", at the 37th European Photovoltaic Solar Energy Conference and Exhibition. 7-11 September 2020

Certifications Academic IELTS: Overall score 7 (achieved in 2016)