

# Neda Nikbakht

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## EDUCATION

**Islamic Azad University Najafabad Branch (IAUN) | Isfahan, Iran**

**09/2018 – 01/2021**

Master's in Chemical Engineering - Health, Safety & Environment

US News Ranking 2083 in the World (2021-2022)

GPA: 17.55/20

Dissertation:

'Identification and Assessment of Health Risks in Order to Provide Control Measures in a Bitumen Production Process from the Vacuum Bottom of Oil Refineries'

**Isfahan University of Medical Sciences (MUI) | Isfahan, Iran**

**09/2013 – 06/2017**

Bachelor's degree Occupational Health and Safety Engineering (funded)

US News Ranking 1160 in the World (2021-2022)

GPA: 16.06/20

Dissertation: 'Internship in the field of Polar factory (production of cooling and heating devices) in Isfahan city

## Work experience

**Specialized centres of Occupational medicine of**

**1. Arad (Dr. Mortazavi)\***

**04/2022 – present**

**2. Dr. Safaeian and medical diagnostic laboratory of Dr. Sharifie\***

**06/2021 – present**

**3. Bisotun (Dr. Pourabdian)**

**12/2020 – present**

**4. Arena (Dr. Tanhaei)\***

**10/2019 – present**

**5. Salamat Khoban (Dr. Nazemi)\***

**09/2018 – present**

**6. Dr. Habibalahi**

**12/2017 – 02/2018**

**7. Salamat Gostar Daniyal (Dr. gharavi)**

**07/2017 – 08/2017**

**8. Kowsar (Dr. Bahrami)**

**05/2017 – 06/2017**

Occupational health engineer:

- Conducting periodic examinations as well as examinations at the beginning of employment.
- Visiting the workplaces and factories to perform accurate occupational health analysis and accurate observation of harmful factors in the workplaces such as: Chemical, physical, ergonomic, mechanical and psychological factors.
- Preparing factory visit reports based on the observations made.
- \*Working with the healthy line software and systematizing personnel's medical files to integrate information and facilitate the access to the files.

**Specialized centre of occupational medicine Bisotun (Dr. Pourabdian)**

**12/2020 – present**

Occupational health engineer:

- Performing vision tests (color vision deficiency and depth vision tests)
- Measuring height and weight to calculate BMI.

**Specialized centre of occupational medicine Arena (Dr. Tanhaei)**

**10/2019 – present**

Occupational health engineer:

- Performing spirometry test to measure the Evaluation of Pulmonary Function of workers and completing their medical files.

**Specialized centre of occupational medicine Khoban Health (Dr. Nazemi)**

**09/2018 – present**

Occupational health engineer:

- Training company employees to register medical files in medical healthy line software.

**Isfahan Welfare Organization (Amin Health Prevention and Promotion Organization)**

**08/2018 – present**

Scientific instructor in high schools:

Tasks\* and topics:

- Disability and accident prevention
- Raising students' awareness concerning HIV and genetic disease as well as ways to prevent them.
- \*Preparing reports to the organization and final examinations of students.

**Isfahan Ayegh Bitumen Production Factory**

**01/2020 – 01/2021**

Researcher:

- Carried out research in the field of: "Health risk assessment by HRA method of Singapore Department in the process of producing bitumen from vacuum bottom of oil refinery."
- Investigated all of the identified chemical processes in the factory and medical records of workers to figure out occupational-related diseases
- Presented research results in the Master's dissertation.

**Daneshpazhouhan Scientific Institute**

**06/2019 – 11/2019**

Academic counsellor for Payame Noor University:

Advised the students regarding their desirable field of education and universities.

**Rahyaban Farda Company under the supervision of Isfahan Municipality Urban Services**

**09/2017 – 02/2021**

Safety consultant for community service workers:

Monitored the tasks of workers from safety viewpoint.

Provided solutions and methods for safe work in municipal community workers, garbage truck workers, and recycling workers.

- Established the Committee for Technical Protection, Safety and Occupational Health Periodic visits for workers' workplaces, facilities, machinery
- Composed health and safety checklists for equipment and environment.
- Prepared MSDS reports of chemicals used in job units (personnel working with systematic toxins and Pesticides).

**Azmoeh foolad co.**

**10/2017 – 12/2019**

Occupational health consultant and HSE Assistant:

- Explained safe work from Ergonomics viewpoint to the workers and engineers.
- Processed MSDS reports of chemicals used in Chemical engineering laboratory
- Collaborated with the company's HSE expert to perform other issues in the field of safety, health and environment and perform safety maneuvers to prepare personnel for possible accidents.

**Specialized centre of Occupational medicine of Dr. Habibalahi**

**12/2017 – 02/2018**

Occupational health engineer:

- Performed vision screening test and diagnosed visual acuity.
- Conducted spirometry test and evaluated Pulmonary Function of workers and perform different interpretations based on test results.

**Specialized centre of occupational medicine Salamat Gostar Daniyal (Dr. gharavi)**

**07/2017 – 08/2017**

Occupational health engineer:

- Assisted supervisor of occupational health department to coordinate the affairs of employees and clients and
- Sent up-to-date medical files to companies.

**Recycling organization and City Services Municipality Isfahan**

**06/2017 – 09/2017**

Occupational health Engineer:

- Organized occupational health meetings in the municipality with experts, and set updated instructions
- Oversaw the content of the book and aided the editorial board in book writing " Introduction to common diseases in urban cleaning workers.
- Composed health individualized booklets for all workers.
- Headed the proper performance of medical examinations (periodic examinations as well as examinations at the beginning of employment).

**Specialized centre of occupational medicine Kowsar (Dr. Bahrami)**

**05/2017 – 06/2017**

Occupational health intern:

- Spent my Internship and learnt the tasks of an occupational health expert in occupational medicine institutes
- Learnt how to interpret tests: lung, vision, driver psychology, hearing screening and routine blood tests.
- Developed the correct method of analyzing different tasks.
- Learnt how to take the test and complete a driver's health card.

**Polar factory (production of cooling and heating devices) in Isfahan city**

**01/2017 – 05/2017**

Occupational Health and Safety intern:

- Spent my Internship and learnt the tasks of an occupational health expert in occupational medicine institutes
- Presented research results in the bachelor's dissertation

**Teaching Experience**

**Scientific instructor in High schools**

**08/2018 - present**

Conducted courses as a teacher

Topics:

- Disability and accident prevention
- Raising students' awareness concerning HIV and genetic disease as well as ways to prevent them.

**Instructor in the University**

Conducted courses as an instructor

Topics:

- Oil and gas transmission industry and providing safety solutions for future **12/2019**
- "Health, Environment and Sustainable Development. Identifying Links and Indicators to Promote Action"
- "Micro plastic ingestion by riverine macroinvertebrates" **05/2019**

**Teacher assistant**

- Assessing ergonomic postures by OWAS, RULA, REBA, QEC methods **01/2017 – 02/2017**
- Determining the degree of ergonomic intervention in four work positions: welding, cutting, reactor evacuation and site repairs in the petrochemical industry of Assaluyeh and submitted a proposal

**Publications and journals**

**Articles**

- "Carcinogenic and health risk assessment of respiratory exposure to Acrylonitrile, 1,3- Butadiene and Styrene (ABS) in a Petrochemical Industry Using the United States Environmental Protection Agency (EPA) Method"  
**Submitted by** International Journal of Occupational Safety and Ergonomics (JOSE)  
**DOI:** <https://doi.org/10.1080/10803548.2022.2059171>
- "Identification and Assessment of Health Risks in Order to Provide Control Measures in a Bitumen Production Process from the Vacuum Bottom of Oil Refineries"  
**Submitted by** journal of Health System Research Isfahan University of Medical Sciences  
<https://hsr.mui.ac.ir/article-1-1232-en.html>  
**DOI:** 10.22122/jhsr.v17i3.1429
- "Designing health risk assessment software in the chemical industry using the method of the Singapore Department (Interdisciplinary cooperation)]"  
**In prep:** In the proposal writing stage

**RESEARCH INTEREST**

- Ergonomics analysis for body
- Smart PPEs
- Public health
- Risk assessment
- Air quality control
- Wastewater management
- Environmental health and safety
- Clean energy
- Sustainability

## **Social activity involvement**

**Sediqin Charity (breadwinner women improvement) | Isfahan, Iran**

**05/2021 – present**

**Occupational health engineer**

- Participating in the provincial health centre meetings.
- Organizing technical protection and occupational health committee meetings and sending monthly reports.
- Directing training sessions for the company's workforce in the fields of ergonomics and workplace hygiene.
- Heading consulting sessions and face-to-face conversations with workers concerning work-induced problems.
- Providing appropriate personal protective equipment (PPEs) for workers.

**Islamic Azad University Najafabad Branch | HSE group management | Startup HSE 2018 (Entrepreneurship Event)**

**Participant and idea developer**

**12/2018**

- Ideation in the field of entrepreneurship with the topics of safety, environment, health, energy, crisis management, passive defence, cleaner production.
- Acquaintance with business models and creative ideas in the field of safety, health and environment
- Participation in the first HSE start-up in Isfahan
- Collaboration in the research project of evaporative Iranian Cooling Vest

## **ACHIEVEMENTS**

- Member of the pilot design research and construction group for the purification of industrial wastewater by electrocoagulation method in IAUN **05/2019**
- Top rank in book reading competitions in IAUN **01/2019**
- Won the second place in University Darts Team in MUI **04/2017**
- Member of the basketball team in MUI **02/2017**
- Member of editorial board of Harkat Sports Magazine in MUI **04/2016**
- Member of the narration and voice acting group in Rasa Audio Magazine in MUI **03/2016 - 07/2017**
- Top rank in book reading competitions in MUI **05/2015**
- Member of editorial board in scientific and cultural journal of Rahavard occupational health in MUI **04/2015 - 04/2017**

## **Certificates**

Kerman Occupational Health Engineering Scientific Association

**07/2021**

Fire risk assessment of buildings with CFSES Software

Quality Certification Bureau Italia s.r.l.

**05/2021**

Environmental Management System (Based on ISO14001:2015)

HSELMS Academy Training Module

**05/2021**

Arranging Committee for Technical Protection, Safety and Occupational Health

Occupational Health Association of Shiraz University of Medical Sciences

**04/2021**

Practical tips for occupational health and safety

The Genetic Disabilities prevention institute (Atieh Negar Gene Alborz)

**02/2021**

Interpreting medical lab sheets workshop

The Genetic Disabilities prevention institute (Atieh Negar Gene Alborz)

**02/2021**

Preliminary Prescription Workshop

Institute Saba Pishro Danesh

**02/2021**

Photoshop Introductory Seminar (poster design course)

HSELMS Academy Training Module

**05/2020**

What an HSE expert needs to know

Iranian Scientific Association of Medical Education & Islamic Azad University Isfahan

**06/2019 - 02/2020**

Professional training, pharmacy staff (Pharmacy Technician)

Isfahan Health Centre, No 2. 3 training courses and retraining of ergonomic posture assessment methods (REBA, RULA, QEC, ROSA, OWAS, SNOOK, NIOSH and WISHA) in industries	<b>09/2018 – 01/2019 - 01/2022</b>
Department of cooperatives, labour and Social Welfare of Isfahan Verification of safety and technical protection experts	<b>01/2018 - 03/2021</b>
Red Crescent Society of Isfahan First aid training course (Preliminary)	<b>11/2018 - 12/2018</b>
Isfahan Welfare Organization Instructor training course for raising awareness and preventing disabilities	<b>10/2018</b>
Industrial Research & Training Center of Iran Principles of HSE in Supervision	<b>07/2018</b>
Research and Technology Committee of MUI Introduction to Software Bow Tie Protem	<b>05/2017</b>
Research and Technology Committee of MUI Modelling impact of process accident with ALOHA Software	<b>05/2017</b>
Research and Technology Committee of MUI Introduction to the steps of establishing an IMS management system	<b>05/2017</b>
Research and Technology Committee of MUI Specialized workshop, explaining the standards and requirements of personal protective equipment	<b>05/2017</b>
Research and Technology Committee of MUI Introduction to books permissible occupational exposure limits (OEL)	<b>05/2017</b>
Research and Technology Committee of MUI Introduction to legal bases and legal requirements in occupational health	<b>05/2017</b>
Research and Technology Committee of MUI ERE Research method	<b>05/2014</b>

## **SKILLS**

**Languages:** Certificate Result of English Duolingo Test (145/160)

**Microsoft Office:** Proficient in Word, Excel and PowerPoint

**Adobe:** Proficient in Adobe Photoshop, Adobe Reader

**Ability to work with:** Bow Tie Protem, ALOHA, AirMon soft, GIS,

**Technical skills:**

- Able to work with Spirometry machine
- Relative ability to operate with laboratory devices such as Gas Chromatography

## **HOBBIES & INTERESTS**

- Fitness and Dart
- Practicing English conversations
- Reading books and essays about Ergonomics and Environmental sciences