

Dr. HASSAN RAMADAN ZAID
Assistant Professor-Metallurgist

Tripoli-Libya

+218-91-3088390| hassan.zaid@gu.edu.ly. | [LinkedIn](#)

PERSONAL PROFILE

Versatile and accomplished metallurgist with extensive cumulative academic and professional hands-on experience in materials science and engineering. Highly qualified with Master of Science (MSc) in Metallurgical Engineering and PhD in Metallurgy of Advanced Metal Materials. Strong background in determining methods to strengthen or combine materials as well as developing new materials with special properties for use in a variety of products and applications. Proven record of research accomplishments and publications to credit. Showcases an eye for detail coupled with proficiency in conducting research on heat treatment and metallographic inspection and quality control of metal materials. Significantly good skills in using optical, SEM, XRD and EBSD analysis of microstructure of metals and alloys. Demonstrates remarkable ability to mentor graduate students and develop an innovative research and educational programme. Exceptional experience in enabling the characterization of results of tested metals and alloys. Developed interpersonal skills to communicate both written and verbally to stakeholders with at all levels. Plethora of experience leading teams in labs, ensuring maximum efficiency and the highest safety standards of foundry operations.

CAREER HIGHLIGHTS

- Demonstrated abilities in performing metallurgic examinations, inspecting and analyzing metal materials and identifying material's physical, mechanical and chemical properties; determining methods to strengthen or combine materials as well as developing new materials with special properties.
- Skilled in coordinating with production departments and planning laboratory testing, managing mechanical testing and NDT facilities along with reporting results and training of Lab users.
- Proficient in metal casting both die and sand casting, and subsequent QC according to DIN and ASTM standards.
- Proficient in Microsoft Office and IT competent.

EDUCATION

2017: Deakin University (Geelong-Australia – PhD (Metallurgy Engineering)
2005: Belgrade University (Belgrade-Serbia) – Master of Metallurgy Engineering
1990: Tripoli University (Tripoli-Libya) – Bachelor of Mining Engineering

TRAINING AND STUDY COURSES

Oct 2017 Leadership, (Leadership Victoria-Australia) (<http://www.leadershipvictoria.org>)
Dec 2016 Diploma of Business Administration (Career Australia Institute (<https://www.training.com.au/provider/careers-australia/>)
Sep 2013 Sample preparation and SEM usage, (Deakin University) (<http://www.deakin.edu.au>)
Mar 2012 Safety in Metalography Labs, (Deakin University) (<http://www.deakin.edu.au>)
Dec. 2012 H/C rolling of Al alloys at Alcoa-VIC Australia
Nov 2002 Investment casting and QC/QA of Turbine Blades (Incolin Ni alloys at LPO-Ada Serbia) (<http://www.lpo.rs>)
Aug 1998 Heat treatment of Metal Materials, (Military Technical institute – Belgrade Serbia) (<http://www.vti.mod.gov.rs>)

WORK EXPERIENCE

Nov. 2019 – to date: Teaching and under-graduate student supervising in University of Gharyan-Libya. ([University of Gharyan \(gu.edu.ly\)](http://www.gu.edu.ly))

Responsibilities:

- Head of Materials Science Department.
- Teaching subjects for faculty Engineering students **University of Gharyan**.
- Helping in with other academics and lecturers to improve high quality curriculum (**University of Gharyan**).
- Helping students and Engineers in their university projects (materials Science).

March. 2023 – to date: Member of metallic Industry committee in The Libyan National Center for Standardization and Metrology (LNCSM).

Responsibilities

- Reviewing the international standards in the required standards for using locally.
- preparing and updating the Libyan standards according to the local environment and requirements.
- Connecting with local industries to help them applying their work with Libyan standards.

Aug 2017 – Sep 2018 Research Assistant – IFM/Deakin University (www.deakin.edu.au) Geelong-Australia

Responsibilities:

- Experiments layout.
- Sample preparation for optical microscope, SEM and EBSD analysis.
- Heat treatment, hot and cold rolling, mechanical testing.
- Conventional and vacuum steel casting.
- Result analysis and report writing.
- Presentation of the research outcomes to the research team and visitors.

Mar 2007 – Sep 2010 Lecturer and Head of Materials Science Department – University of Gharyan (www.gu.edu.ly) Gharyan-Libya

Responsibilities:

- Play an active role in the life of the department by supporting activities around; research, teaching, enterprise, student experience and widening participation.
- Designed and delivered lectures to graduate/undergraduate students, in addition to supervising student projects.
- Create innovative instructional materials and laboratory experiences/experiments in order to ensure feasibility of processes/techniques used in the production of materials with special characteristics; conducted mechanical testing of metal materials and interpretation.
- Determined the educational needs of students and accordingly facilitated formal educational, training programmes and classes.
- Curriculum development of materials in the science department.

Oct 1995 – Jan 2007 Researcher/Lab Manager – Central Research laboratories (مركز البحوث التقنية) Tripoli-Libya

Responsibilities:

- Managing the laboratory to ensure customer's requirements were met and testing was carried out efficiently.
- Worked in the field of heat treatment, metallographic inspection and quality control of metal materials.
- Securing information for development of new products or enhancement of existing ones; researched on structures and properties of materials including metals, alloys, polymers and ceramics.
- Ensuring accomplishment of manufacturer and governmental quality and safety standards while performing test of individual parts/products.

Mar 1991 – Sep 1995 Heat Treatment Engineer – Small Arms Ammunition Factory (هيئة التصنيع), Al Kohms-Libya

Responsibilities:

- Securing the daily tasks priority, prepare the furnaces and the working facilities.
- Managing the heat treatment schedule for the Bi-metal and for the different processing stages.
- Ensuring the safety standards in the heat treatment section.
- Ensuring the quality control and quality assurance of the heat treated products (by hardness testing).
- Managing the daily report for the department.

PERSONALS

Linguistic Abilities: English and Arabic

References on request