

# Mohamed El-Faki

RESEARCHER

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Country: Sudan (Africa)

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## COVER LETTER

Dear HR Manager

I am writing to express my interest in the **Renewable Energy Consultant** position, that I believe the company may play significant role in changing the shape of the whole country & world via adopting innovative and exploiting renewable energy systems (solar, wind, hydrogen, geothermal & ocean), energy transition, and clean technologies. As a result, this can have great impacts into global efforts to combat the challenges of climate change by providing unique & innovative solutions to enhance sustainability for a better future of our children.

I'm an independent scientific researcher in the energy industry who have strong interest & eager to solve industrial challenges by thinking outside the box. I am driven by great passion to discover strange phenomenon and investigate how it happens? So, we can foster this knowledge in design new sustainable solutions and products to help make our world better place to live.

I graduated as one of 10 top distinguished students in my class back in 2010; but, due to economic challenges in our country (Sudan) I wasn't lucky to follow my passion and pursue a career in research. Scientific sources and research labs were very scarce or limited. So I decided to pursue my career as an independent scientific researcher, hoping that international institutions & companies can support or fund my research efforts.

Over the past 14 years, I have published many scientific papers and have increased my scientific knowledge from reading many scientific articles & watching scientific videos, and self-taught myself many new engineering software to enhance my research skills.

I aim to be part of an organization that will shape up the future of the world by conducting effective research & business areas related to renewable energy industry. This will allow me to learn more about the industry by being closer to scientists & professionals with extensive knowledge.

Therefore, I would appreciate the opportunity to join the energy team and be among the talented, dedicated & inspiring engineers & researchers that works for the company.

Thanks you for giving me your glorious time to read my cover letter & I hope to be considered for this position.

Sincerely,

Eng. Mohamed Hyder Seid-Ahmed Elfaki

## Mohamed Hyder Seid-Ahmed El-Faki Mohamed

**Country:** Sudan ♦ **Email:** [energy.of.nature@gmx.com](mailto:energy.of.nature@gmx.com) ♦ **LinkedIn:** <http://www.linkedin.com/in/scientistmohamed>

**Education:** B.sc, Mechanical Engineering (Power), **Experience:** 14 Years

*Researcher • Self-motivated • Multi-tasker • Detail oriented • Team-player*

### SUMMARY

Mohammed El-Faki is a researcher with a B.sc in Mechanical Engineering (Power) and 14 years of independent research experience in renewable energy, aerospace & aviation applications. He is driven by strong technical and research skills to address the world most complex research problems in fields of renewable energy, aerospace & aviation. He has published more than 25 scientific articles and has secured many patents. He has strong interests in pursuing a career in Research & Development (R&D) in renewable energy solutions, electric vehicles (EV), aerospace, aviation, power generation, environment, climate change & market research.

### HONORS

4<sup>th</sup> place in Nile Petroleum Prize for Scientific Innovation (Sudan)

2014

### SCIENTIFIC EXPERIENCE

**Independent Scientific Researcher** (Sudan)

2010 – Present

Worked as an Independent researcher to tackle down complex research problems in fields of renewable energy.

Major achievements included:

#### **Peer-Reviewed Publications:**

- Publishing a scientific article by name “The Scientific Revolution in Power Plants”, Smart Grid & Renewable Energy (SGRE) Journal, Vol.3, No.2, Scientific Research Publishing (www.scirp.org) for **2012**.

#### **Scientific Articles:**

- Energy of Earth (Daily Notes) [**Feb 2023**]
- Wind Power – Version 2 (CFD Simulation Analysis - Daily Notes) [**Jun 2022**]
- Energy Chaos in Sudan: Problems & Solutions (Daily Notes) [**Jan 2022**]
- The Oceanic Train: The Future Transportation for Maritime Industry. [**Dec 2021**]
- The Miracle Airfoil 4 Aviation & Wind Industry (CFD Simulation Analysis) [**Apr 2020**]
- Is There A Relationship between Black-Hole with Coanda Effect?? [**Jul 2019**]
- Fuel Consumption Mitigation of Rockets Launch by Applying Astonishing Ideas. [**Nov 2018**]
- Fuel Consumption Mitigation of Aircrafts by Applying Astonishing Ideas. [**Oct 2018**]
- Ingenious Techniques for Increasing the Power of Wind Energy Technology. (**Aug 2017**)
- Solutions for Sea Level Rise (SLR) “Series” – Introduction [**2016**]
- Deep Water Technique (DWT) for producing Hydrogen, Purified Water & A Unique Electricity. (SLR Series: Episode-5) [**Apr 2017**]
- Advanced Solar Photo-voltaic (PV) Technology on Ocean. (SLR Series: Episode-4) [**Jan 2017**]
- Mini Artificial Oceanic Stars (MAOS) Technology for Decreasing the Thermal Expansion of Seawater. (SLR Series: Episode-3) [**Dec 2016**]
- Isolated Marine-Wall for Stopping the Shrinkage of Ice Sheets in Antarctica. (SLR Series: Episode-2) [**Nov 2016**]
- Artificial X-Large Lakes (AXL) Technology for Preventing the Sea Level Rise (SLR) Near The Coastline Cities. (SLR Series: Episode-1) [**Oct 2016**]
- Reducing Weight by Using Artificial Body Fins Technology. [**Sep 2016**]
- Rockets Launch: Creative Ideas to Reduce Fuel Consumption. [**Jul 2016**]

- Advantage of Failure for My Bio-gas Experiment in Home: Be More Strength & Insistence. [Jun 2016]
- Smart Fly Vehicle (SFV) – The Proposed Future Technology for Transportation Industry. [Jan 2016]
- Can We Produce A Work (Electricity) from Cold Weather (Ice Pieces)? [Jan 2016]
- El Nino Phenomenon: Possibility of Human Controlling. [Dec 2015]
- Crazy Ideas 4 Solving the Climate Change Effects. [Dec 2015]
- Effective Weight-loss Strategy by Human Radioactivity. [Dec 2015]
- Ending the Wave of Indiscriminate Killings in Cities by Using Smart Guns Technology. [Dec 2015]
- Be Careful From Stealing Your LinkedIn Profile. [2015]

### **Inventions (You-tube Videos)**

- New Humidifier/ Evaporative System [June 2018]
- Making Light without Glass/Plastic Shield [May 2019]
- Turtle Technology for Wave Energy [Oct 2021]
- New Technology for Heating Objects [Mar 2022]
- Energy of Earth [Feb 2023]

***You may found all my scientific articles & videos in below link:***

<https://scientistmohamed.wordpress.com/about>

### **Patents:**

- Certificate of Patent by the name of “**The Special Device for Adding Heat at Constant Volume**”, from the Intellectual Property of Sudan (IPOS) under the No.1857, for **2011** (Sudan).
- Certificate of Patent by the name of “**The Innovative Temperature Gauge – Mohamed’s Type**”, from the Intellectual Property of Sudan (IPOS) under the No.3117, for **2013** (Sudan).
- Certificate of Patent by the name of “**The Innovative Pressure Gauge – Mohamed’s Type**”, from the Intellectual Property of Sudan (IPOS) under the No.3118, for **2013** (Sudan).
- Certificate of Patent by the name of “**The Device for Measuring the Pour Point of Petroleum Products**”, from the Intellectual Property of Sudan (IPOS) under the No.3125, for **2013** (Sudan).
- Certificate of Patent by the name of “**The Accurate & Easy Device for Measuring the Dynamic Viscosity**”, from the Intellectual Property of Sudan (IPOS) under the No.3126, for **2013** (Sudan).

## **EDUCATION**

**Bachelor of Science (B.sc), Mechanical Engineering (Power) – First Class (Honors)**

**2005- 2010**

Sudan University of Science & Technology (SUST), Sudan

**CGPA: 3.03/4**

## **SKILLS**

AUTOCAD | OCTAVE = MATLAB | Fluent ANSYS | Gambit ANSYS | Q-Blade | Critical Thinking | Creativity | Innovation | Analytical Writing | Scientific Writing | MS Office | Market Research | Economical Feasibility Study

## **LANGUAGE**

**English** (Limited Working Proficiency) | **Arabic** (Native) |

## **INTRESTS**

Scientific Research | Technology | Innovation | Reading | Travelling |