

## THAMRAA MOHAMMED ALSHAHRANI

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Thamraa is an associate professor in physics department, Princess Norah University, Riyadh, Saudi Arabia. Her specialty in solid state physics, semiconductor materials and renewable energy. As a scientist she also applying project management and leadership strategy in her projects to gain both solutions and best practices.

### BRIEF OVERVIEW

- ☞ **Vice Dean of graduate studies for academic programs and development at Princess Nourah bint Abdulrahman University**
- ☞ **Director of Identity and Institutional Reputation at Princess Nourah bint Abdulrahman University**
- ☞ **Director of the advisory support project for distinguished scientific publication and international visibility at PNU university.**
- ☞ **MSc Energy Innovation program manager at Princess Nourah University, Riyadh, Saudi Arabia in collaboration with Swansea University, United Kingdom. (<http://www.esri-swansea.org/en/msc-in-energy-innovation.htm> ).**
- ☞ **Chair Professor of joint energy innovation scientific chair between Princess Nourah bint Abdulrahman University and Durham Energy Institute.**
- ☞ **Associate professor, physics department, faculty of science, Princess Nourah University, Riyadh, Saudi Arabia.**
- ☞ **Research affiliate at photovoltaic Lab, Mechanical Engineering department, Massachusetts Institute of Technology, Boston, USA.**
- ☞ **Postdoctoral researcher, Mechanical Engineering department, Massachusetts Institute of Technology, Boston, USA. ([Meet the women shaping science and engineering in Saudi Arabia | MIT News | Massachusetts Institute of Technology](#)) ([MIT Photovoltaics Research Laboratory \(buonassisigroup.com\)](#)).**
- ☞ **PhD (organic solar cells using nano-materials size), Bangor University, Wales, U.K.**
- ☞ **MSC Research project on ORGANIC THIN FILM TRANSISTORS: FABRICATION AND CHARACTERIZATION.**
- ☞ Detail oriented with an analytical bent of mind and positive attitude.
- ☞ Proficiency at grasping new technical concepts quickly & utilizing it in a productive manner.
- ☞ An effective communicator with strong analytical, interpersonal, problem solving, organizational abilities.
- ☞ I was a member of the technical team of the physical measurements of the Saudi Standards, Metrology and Quality organization, 2016-2017.
- ☞ I am a member of the technical team of the photovoltaics of the Saudi Standards, Metrology and Quality organization, 2020- until now.
- ☞ Member of the Standing Committee for Programs at the Deanship of Graduate Studies, PNU.
- ☞ A Member of Scientific Research Deanship Council, Deanship of scientific research, Princess Nourah bint Abdulrahman university.
- ☞ A member in Internal Finance Committee at Deanship of scientific research, Princess Nourah bint Abdulrahman university.
- ☞ A member in Institutional Finance Committee at Deanship of scientific research, Princess Nourah bint Abdulrahman university.
- ☞ Coordinator of the Department of Creativity and Student Excellence, College of Science, PNU.
- ☞ Reviewer at RSC advances Journal – Ranking in ISI-Q2.
- ☞ Reviewer editor at Frontiers in Electronic Materials([Loop | Thamraa Mohammed Alshahrani \(frontiersin.org\)](#))
- ☞ member in scientific research and innovation association.
- ☞ Trainer in Mawhiba Academic Enrichment Program - Renewable Energy Track – PNU- summer-2021.
- ☞ Member at IEEE-Saudi section community.

- ☞ Member in Saudi Society of Applied Sciences.
- ☞ Ambassador for Quality at the Saudi Standards and Metrology Organization.
  
- ☞ Arbitrator in The National Olympiad for Scientific Creativity (Ibdaa)- 2023.
- ☞ Supervisor PhD students from PNU in energy innovation program with Swansea University in joint PhD program.

## Academia

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- 2021** Associate professor, physics department, Princess Nourah University, Riyadh, Saudi Arabia.
- 2019** Visiting researcher, civil struct& Env. Engineering department, Trinity college of Dublin.
- 2017-2018** Postdoctoral researcher, Mechanical Engineering department, MIT, Boston, USA.
- 2016** Assistance professor, physics department, Princess Nourah University, Riyadh, Saudi Arabia.
- 2016** PhD (organic solar cells), Bangor University, Wales, U.K.
- 2010** M.Sc. (Nanotechnology & Micro Fabrication), Bangor University, Wales, U.K. Merit level.
- 2007** B.S.C (Physics) from College of Education for girls, scientific section, Abha, Secured 92.70%.

## Training programmers and certificates

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- 1- Effective speaking (MIT)
- 2- Leadership at different lenses (MIT)
- 3- Present with skills and confident (MIT)
- 4- PMP preparation exam classes
- 5- Maximizing the Mentee-Mentor Relationship (Harvard)
- 6- Mastering Constructive Conflict (MIT)
- 7- AI and beyond: the integration of human and artificial intelligence
- 8- Leadership Strategies for the Researcher (Harvard)
- 9- Kaufman Teaching Certificate Program (KTCP) (MIT)
- 10- Executive certificate in management and leadership (MIT)
- 11- Leading innovation: towards vision 2030 (MIT).

## Collaboration Agreement

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- 1- liaison officer in the agreement between PNU and King Salman Science Oasis.
- 2- liaison officer in the agreement between PNU and king Abdelaziz city for science and technology
- 3- liaison officer in the agreement between PNU and king Abdullah city for atomic and renewable energy
- 4- liaison officer in the agreement between PNU and Gulf Renewables Lab - GCC electrical testing laboratory
- 5- liaison officer in the agreement between PNU and Saline Water Conversion Corporation (SWCC)

## Publication

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[Dr. Thamraa Alshahrani](#) - Google [Scholar](#)

## Languages

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Arabic (Native)/English (fluent).