

## Curriculum Vitae

- 1. Name:** Shahin Shafiee  
**Academic Rank:** Assistant Professor
- 2. Education:** B.S.M.E., University of Sistan & Baluchestan, Zahedan, Iran, 2004.  
M.Tech .M.E., M.S.Ramaiah Institute of Technology, Bangalore, India, 2010.  
Ph.D., M.E., Florida Institute of Technology, Melbourne, Florida, 2016.
- 3. Academic Experience:**

Oct. 2019-Present	Prairie View A&M University, Mechanical Engineering Department, Assistant Professor.
May. 2018-Oct. 2019	Georgia Institute of Technology, G.W.W School of Mechanical Engineering, Postdoctoral Fellow.
Aug. 2017-May. 2018	Florida Institute of Technology, Mechanical and Aerospace Engineering Department, Adjunct Faculty.
Nov. 2016-Mar. 2018	Polytechnic University of Puerto Rico (Orlando Campus), Department of Engineering, Adjunct Faculty.
May. 2016-Nov. 2016	National Center for Hydrogen Research, Florida Institute of Technology, Invited Researcher.
Aug. 2012-May. 2016	Florida Institute of Technology, Mechanical and Aerospace Engineering Department, Research and Teaching Assistant.
- 4. Non-Academic Experience**

Nov. 2006-Oct. 2008	Ros Co., Zahedan, Iran, Mechanical Engineer
Aug. 2006-Sept. 2007	Houkat Sistan Co., Zahedan, Iran, Project Manager
Jan. 2005-July. 2006	Housing and Urban Planning Organization of Sistan & Baluchestan Province, Zahedan, Iran, Mechanical Engineer
July. 2004-Mar2006	Ashar Jonoub Consulting Co., Zahedan, Iran, Mechanical Engineer
Aug.2002-Feb2004	Sinam Consulting Co., Zahedan, Iran, Mechanical Engineer
- 5. Certification or Professional Registration:** Iranian Society of Professional Engineers
- 6. Current Membership in Professional Organizations:**  
Member of ASME
- 7. Honors and Awards**
  - 2023 ASME ES2023 Conference Early Career Faculty Award
  - 2022 Panther RISE Award
  - 2022 VPRI-RAPID Award
- 8. Service Activities**
  - COE grievance and appeal committee
  - ME department appeal committee
  - ME department academic integrity committee
  - CVEG department appeal committee
  - CEES postdoctoral fellow hiring committee
  - Advised 3 graduate student (committee chair, co-advisor, committee member)
  - Advised 8 undergraduate research students

- Advised 4 senior design projects
- Reviewer for ASME journals and applied thermal engineering

## 9. Selected Publications and Presentations

- D. Banerjee, **S. Shafiee**, “*Investigation of Nanofin Effect (Nfe) for Resolving the Anomalous Properties of Nanofluids*”, ASME IMECE 2023
- **S. Shafiee**, H. Dicko, “*Enhancing Thermal Resistance of Building Walls by Utilizing Fluid Flow in Microchannel Within the Wall*”, ASME 2023 ES
- R. Bahadori, H. Gutierrez, **S. Shafiee**, “*A Highly Parallelized Mesh-Free Approach For Simulation Of Heat Conduction In Ferromagnetic Particulate Materials Under Magnetic Field Effects*”, International Journal of Heat and Mass Transfer, vol. 174, 2021.
- **S. Shafiee**, “*Operational Principles and Effect of Operating Parameters on Performance of Metal Hydride Heat Pumps*”, International Journal of Refrigeration, vol. 120, pp-22-30, 2020.
- M. H. McCay, and **S. Shafiee**, “*Hydrogen: An Energy Carrier*”, Future Energy, improved, Sustainable and Clean Options for Our Planet, 3<sup>rd</sup> Edition, Elsevier, ISBN 9780081028865, 2020.
- **S. Shafiee**, M. H. McCay, and S. Kuravi, “*Effect of Magnetic Fields on Thermal Conductivity in a Ferromagnetic Packed Bed*”, Experimental Thermal and Fluid Science, vol. 86, pp. 160–167, 2017.
- **S. Shafiee** and M. H. McCay, “*Different Reactor and Heat Exchanger Configurations for Metal Hydride Hydrogen Storage Systems - A Review*”, International Journal of Hydrogen Energy, vol. 41, no. 22, pp. 9462–9470, 2016.

## 10. Professional Development Activity

- Organizer for 2020 SES Symposium
- ACUE training
- DOE high temperature electrolysis manufacturing workshop
- DOE bulk storage of hydrogen workshop
- NSF workshop on thermal issues in climate change
- NSF workshop on emerging opportunities at the intersection of quantum and thermal sciences
- DOE thermal energy storage for building workshop
- NSF-JST joint workshop on thermal transport
- DOE long duration energy storage workshop
- NSF TTP-UCF workshop
- 2022 ABET and Taskstream training
- Online Instructure Certification training
- PVAMU Data Blitz series