

# RESUME

**GURVEER SINGH**

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Permanent Address: Old Shivbadi Road, Ambedkar Colony, Bikaner, Rajasthan-334003

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**OBJECTIVE** To obtain a promising research/academic position that utilizes my analytical and interpersonal skills.

**EDUCATION** **INDIAN INSTITUTE OF TECHNOLOGY, JODHPUR, RAJASTHAN**  
Doctor of Philosophy (Ph.D) in Thermo-fluids engineering, (2019)  
Concentration: **Concentrated Solar Thermal Energy**

**INDIAN INSTITUTE OF TECHNOLOGY, JODHPUR, RAJASTHAN**  
Master of Technology (M.Tech) in Energy, (2014)  
Concentration: **Solar Thermal Energy**  
Overall GPA: 8.73/10 (**Gold medalist**)

**ENGINEERING COLLEGE BIKANER, (RAJASTHAN TECHNICAL UNIVERSITY)**  
Bachelor of Technology (B.Tech) in **Mechanical Engineering**, (2011)  
Overall Percentage: 71.82% (**Honours**)

**SETH TOLARAM BAFNA ACADEMY, (CENTRAL BOARD OF SECONDARY EDUCATION)**  
Senior Secondary education in Science (Physics, Chemistry, Mathematics), March 2007  
Overall Percentage: 71.00 %

**AIR FORCE SCHOOL BIKANER, (CENTRAL BOARD OF SECONDARY EDUCATION)**  
Secondary education, March 2005  
Overall Percentage: 70.80%

**RELEVANT EXPERIENCE** **LARSEN AND TOUBRO CONSTRUCTION, PUNE, MAHARASHTRA**  
Graduate Engineer Trainee (July 2011 to October 2011)

**INDIAN INSTITUTE OF TECHNOLOGY, JODHPUR**  
Teaching Assistant (July 2012- December 2017)

**UNIVERSITY COLLEGE OF ENGINEERING & TECHNOLOGY, BIKANER**  
Assistant Professor (December 2017- Present)

**PROJECTS** **On the development of a research facility on concentrated solar thermal system**  
Budget: 14,62,000 Funding Agency: AICTE Role: Principal Investigator  
Duration: July 2019- September 2020

**ADMINISTRATIVE POSITIONS**  
→ Departmental Startup cell coordinator  
→ Departmental training and placement coordinator  
→ Lab In-charge (Thermal Laboratory)  
→ Institute NBA procurement in-charge  
→ Tinkering lab in-charge

# RESUME

## RELEVANT COURSES

**Graduate Courses:**  
Solar Thermal Systems  
Boundary Layer Theory  
Turbulent Fluid Flows

**Undergraduate Courses:**  
Thermodynamics  
Fluid mechanics  
Heat transfer

## PUBLICATIONS

International Journals:

1. Singh, G., Saini, D., Yadav, N., Sarma, R., Chandra, L., and Shekhar, R. (2015). Dust deposition mechanism and cleaning strategy for open volumetric air receiver based solar tower sub-systems. *Energy Procedia*, 69, 2081-2089.
2. Singh, G., Saini, D., and Chandra, L. (2016). On the evaluation of a cyclone separator for cleaning of open volumetric air receiver. *Applied Thermal Engineering*, 97, 48-58.
3. Boddupalli, N., Singh, G., Chandra, L., and Bandyopadhyay, B. (2017). Reprint of: Dealing with dust—Some challenges and solutions for enabling solar energy in desert regions. *Solar Energy*, 154, 134-143.
4. Singh, G., and Chandra, L. (2018). On the flow stability in a circular cylinder based open volumetric air receiver for solar convective furnace. *Energy Procedia*, 144, 88-94.
5. Singh, G., Dhurwe, P., Kumar, R., Kumar, L., Vaghela, N., and Chandra, L. (2018). A step toward realizing open volumetric air receiver based systems in desert regions. *INAE Letters*, 1-9.
6. Singh, G., Kumar, V., Chandra, L., Shekhar, R., and Ghoshdastidar, P.S. (2019). One-dimensional zonal model for the unsteady heat transfer analysis in an open volumetric air receiver. *Journal of Thermal Science and Engineering Applications – ASME*. (Submitted)
7. Singh, G., Chandra, L. (2020). CFD Analysis on the Detrimental Effect of Dust Deposition in Absorber Pore of an Open Volumetric Air Receiver. *Solar Energy*. (Submitted)

Book Chapters:

1. Singh, G., Saini, D., Chandra, L., and Shekhar, R. (2017). Design of a cyclone separator for cleaning of dust from volumetric air receiver. In *Fluid Mechanics and Fluid Power—Contemporary Research* (pp. 83-93). Springer, New Delhi.
2. Singh, G., Kumar, R., Dixit, A., and Chandra, L. (2018). Thermal and materials perspective on the design of open volumetric air receiver for process heat applications. In *Applications of Solar Energy* (pp. 113-127). Springer, Singapore.
3. Singh, G., Luque, S., González-Aguilar, J. Romero, M., and Chandra, L. (2020). Open Volumetric Air Receiver: Current Status, Challenges and Innovative Solutions. In: Hashmi, Saleem and Choudhury, Imtiaz Ahmed (eds.). *Encyclopedia of Renewable and Sustainable Materials*, vol. 1, pp. 586–599. Oxford: Elsevier.

Conference proceedings:

1. Singh, G., and Chandra, L. (2017). Detrimental Effects of Dust Deposition in Pores of an Open Volumetric Air Receiver. In: *ISES Conference Proceedings*, doi:10.18086/swc.2017.04.14.
2. Singh, G., Dhurwe, P., Kumar, R., Kumar, L., Vaghela, N., and Chandra, L. (2018). A Step Towards Realizing Open Volumetric Air Receiver Based Systems in Desert Regions. *Springer proceedings in energy*, In: ICAER 2017 (Accepted, To appear).
3. Singh, G., Kumar, V., Chandra, L., Shekhar, R., and Ghoshdastidar, P.S. (2019). Development of a one-dimensional zonal model for the evaluation of an open volumetric air receiver. *IHMTC IIT Roorkee*. (Accepted)

## ACADEMIC OUTREACH

Journal reviewing assignments with American Society of Mechanical Engineers (ASME).

# **RESUME**

## **ACTIVITIES & HONORS**

- President, BOG's medal for best academic performance in M.Tech (Energy)
- Best Research Paper award in ICAER-2017 IIT Bombay.
- Received honorarium of 100\$ for publishing an invited paper in Encyclopedia of Renewable and Sustainable Materials vol. 1, 2020.
- GATE-2012 (98.9%ile)

## **SOCIAL OUTREACH**

- Active member of Roti Bank Bikaner
- Connected with Anand Marg Children's Home Bikaner.

## **SKILLS**

**Computer:** Microsoft Office, AutoCAD, Solidworks, ANSYS.  
**Languages:** Read, write and speak English, Hindi, Punjabi.

## **REFERENCES**

Dr. Sanjay Singh Rathore  
Assistant Professor  
Government Engineering College  
Bikaner, Rajasthan  
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Dr. Laltu Chandra  
Assistant Professor  
Indian Institute of Technology, Jodhpur  
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I hereby declare that all the information is true and certified.

Gurveer Singh