

# HIMANSHU KUMBHARE

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## CAREER OBJECTIVE:

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Proactive Mechanical Engineer, seeking position as Research Assistant in Energy & Environment sector in order to provide support to faculty head in analyzing and interpreting data for ongoing and develop new technologies.

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## EXPERIENCE DETAILS:

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**Current Employer:** CSIR – National Environmental Engineering Research Institute (NEERI), Nagpur

**Job Profile:** My Responsibility is purely R&D and field activities for the development of Energy Devices and Air Pollution Control in Rural Society. Handling experience of numerous instruments related to Indoor Air pollution (IAP) monitoring and many other laboratory instruments related to Air pollution and fuel analysis. Along with this, good practices in AutoCAD to Design the Prototypes and its development.

### 1. Project Assistant – III

Projects:

- Development of **Decentralized Waste Incinerator** for Combating COVID-19 Spread.
  - Design and Development of a **Low-Cost Mud Based Improved Chulha** (Cookstove).
  - Smart Disposal, **Incineration** and Carbonization Systems (SMART-DISC) for Menstrual Waste Management.
  - Field-based Performance Assessment of **Improved Rocket cookstoves** and Estimation of Benefits in Terms of Fuel and Emission Reduction.
  - H<sub>2</sub>S Emission testing of **RelBits** during hot mixing of bitumen.
- **Duration:** 21<sup>st</sup> Jan 2019 – Present (01 year, 05 months, 27 days)

### 2. Project Assistant – II

Projects:

- Demonstration of **"NEERDHUR Improved Cookstove"**, Adoption, IEC (Information, Education, Communication) Studies and Its impact assessment on Household Air Quality and Respiratory Health.
  - Improved Eco-friendly & Energy Efficient Electric Sanitary Pad Incinerator: **"GreenDispo"**.
  - Short Term and Localised Air Pollution Control System for Crematoria, Dumpsite and others in Delhi: **"Design of a Clean Tandoor Community Kitchen System"**.
- **Duration:** 28<sup>th</sup> Sep 2016 – 30<sup>th</sup> Sep 2018 (02 years, 03 days)

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## SKILLS:

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|--------------------------------|--------------------------------------|-----------------------|
| → AutoCAD 2D & 3D              | → Autodesk Inventor                  | → Open Data Kit (ODK) |
| → MS-Office                    | → 3D Printing                        |                       |
| → Minitab Statistical Software | → SPSS Statistical Software (Basics) |                       |

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## TRAINING/CONFERENCE/PAPER:

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- Bherwani, H., Anjum, S., Kumar, S., Gautam, S., Gupta, A., **Kumbhare, H.**, Anshul, A., Kumar, R.: *Understanding COVID-19 transmission through Bayesian probabilistic modeling and GIS-based Voronoi approach: a policy perspective*. Environ. Dev. Sustain. (2020). <https://doi.org/10.1007/s10668-020-00849-0>.
- **Kumbhare, Himanshu** & Shelare, Sagar. (2020). *Innovative Advancement in Drone Technology for Water Sample Collections - A Review*. International Journal of Scientific & Technology Research. 9. 7266-7269.
- *CEP Course on 3D Printing of Metal at IIT-Bombay (27<sup>th</sup>-28<sup>th</sup> Feb 2020)*
- *"Up-Cycling Of Water Hyacinth Waste to Produce Pellet Fuel"*, 4<sup>th</sup> SEEC, CSIR-NEERI, Nagpur (27<sup>th</sup>-29<sup>th</sup> Nov 2019), **Himanshu Kumbhare**, Mohd Mubashshir Naved, Ankit Gupta, Snehal Korde, Nitin Labhsetwar and Ankeet Bobhate
- *"Laboratory and Field Measurement of PM<sub>2.5</sub>, CO Emissions and Thermal Efficiency from Traditional and Rocket Cookstove"*, 4<sup>th</sup> SEEC, CSIR-NEERI, Nagpur (27<sup>th</sup>-29<sup>th</sup> Nov 2019), Mohd Mubashshir Naved, Ankit Gupta, Ankeet Bobhate, **Himanshu Kumbhare** and Nitin Labhsetwar
- *"Clean Energy Access to Rural Areas"*, CSIR-NEERI, Nagpur (April 25, 2019), **Himanshu Kumbhare** and Er. Ankit Gupta, Dr. Nitin K Labhsetwar
- *"Menstrual Waste Management through an Improved Electric Incinerator"*, CSIR-NEERI, Nagpur (April 25, 2019), Pooja Jain, Rohini Khobragade, **Himanshu Kumbhare**, Er. Ankit Gupta, Dr. Nitin K Labhsetwar
- *"Field Study to Control Dangerous Indoor Emissions by NEERDHUR Intervention" – A Success Story of CSIR-NEERI's Innovation*, CSIR-NEERI, Nagpur (April 25, 2019), Mohd Mubashshir Naved, **Himanshu Kumbhare**, and Er. Ankit Gupta, Dr. Nitin K Labhsetwar
- *"Clean Energy Access to Rural Areas", Interdisciplinary Approaches towards Environmental Management*. CSIR-NEERI, Nagpur (September 22, 2017), **Himanshu Kumbhare**, Swapnil Gawande and Er. Ankit Gupta, Dr. Nitin K Labhsetwar
- One month training at KORADI POWER PLANT (Summer-2015)

## EDUCATIONAL QUALIFICATION:

I am currently pursuing a Master's degree in **Mechanical Engineering Design** from Priyadarshini College of Engineering, RTM Nagpur University.

Examinations	University / Board	Year of Passing	Percentage/CGPA
M.Tech. in Mechanical Engineering Design	RTMNU	2020	8.71 SGPA (Results awaits)
BE in Mechanical Engineering	RTMNU	2016	08.00 CGPA
Diploma in Mechanical Engineering	MSBTE.	2013	70.09 %
SSC / 10 <sup>th</sup>	M.S.B.S & H.S.E.	2009	73.38 %

\* M.Tech. – Masters of Engineering

\* SSC - Secondary School Certificate

\* MSBTE - Maharashtra State Board of Technical Education

\* BE - Bachelor of Engineering

\* RTMNU. - Rashtrasant Tukadoji Maharaj Nagpur University

\* MSBS & HSE - Maharashtra State Board of Secondary & Higher Secondary Education

## DISSERTATION DETAILS:

**M.TECH DISSERTATION:** Design & Development of Drone Based Water Sample Collection (**On-going**)

**BE DISSERTATION:** Design and Fabrication of Pedal Operated Irrigation System.

**DIPLOMA DISSERTATION:** Drum Pelletiser (Making of Pellets [Balls] from Waste Products of Iron Ores and Petroleum Chemicals)

## EXTRA-CURRICULAR ACTIVITIES:

- 2<sup>nd</sup> National Workshop on *Solar Energy Utilization for Sustainable Development*, 2017 (CSIR-NEERI, Nagpur)
- 3<sup>rd</sup> National Workshop on *Solar Energy Utilization for Sustainable Development*, 2018 (CSIR-NEERI, Nagpur)
- *Sustainable Mobility in Delhi, NCR & Beyond: How to achieve more from Efforts?*, 2018, New Delhi (CSIR-NEERI)
- 4<sup>th</sup> International Conference on "*Sustainable Energy & Environmental Challenges - (IV SEEC)*" 27<sup>th</sup> to November 29 2019 (CSIR-NEERI)

## STRENGTHS:

- Ability to work with and manage others
- Punctuality
- Balanced as a personal traits

## HOBBIES:

- Cooking

## PERSONAL INFORMATION:

**Father Name** : Ramesh Vinayak Kumbhare  
**Mother Name** : Shobha Ramesh Kumbhare  
**Date of Birth** : 30<sup>th</sup> December 1993  
**Gender** : Male  
**Nationality** : Indian  
**Marital Status** : Unmarried  
**Language Known** : English, Hindi, Marathi

## PROFESSIONAL REFERENCES:

- **Dr Nitin K Labhasetwar**  
Chief Scientist, CSIR- National Environmental Engineering Research Institute (NEERI), Nagpur  
nk\_labhasetwar@neeri.res.in
- **Er. Ankit Gupta (Reporting officer)**  
Sr. Scientist, CSIR- National Environmental Engineering Research Institute (NEERI), Nagpur  
a1\_gupta@neeri.res.in
- **Dr Avneesh Anshul**  
Principle Scientist, CSIR- National Environmental Engineering Research Institute (NEERI), Nagpur  
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