



# Maire Tecnimont Centre For Research in Waste Recycling and Circular Economy

National Institute of Technology Karnataka Surathkal NITK Campus Post Srinivasnagar Surathkal-575025

## Advertisement for Maire Tecnimont Research Scholarships under Maire Tecnimont Centre for Clean Energy Transition (MTE-CCET)

Ref. No: NITK/MTRC/CSR-2022-23 Date: 22/12/2022

Applications are invited for Maire Tecnimont Postdoctoral Fellowship (MTE-PDF) for Maire Tecnimont Centre for Clean Energy Transition for CSR funded research project on MTE-CCET.

#### **Objective:**

The Maire Tecnimont Post-Doctoral Fellowship for CCET is aimed to identify motivated young researchers and provide them support for doing research in frontier areas of hydrogen production under waste to energy concept. The fellows will work under a Faculty member from NITK, and it is hoped that this training will provide them a platform to develop as an independent researcher. The beneficiaries of this fellowship in the future can support the planners and policy-makers of local governments in strengthening their capacity to manage problems related to waste and access to clean water as well as energy. Further, they can also create employment opportunities, which will help in social upliftment and promote social integration as well as social inclusion.

The availability of the fellowships for Post-Doctoral Fellowship will be for one year and. Interested candidates should fill in their academic and personal details in the prescribed application format and send the same along with attested copies of relevant certificates within 15 days from the date of advertisement to the contact person. Only the shortlisted candidates will be informed by post/E-mail/Phone/ Website: <a href="https://www.nitk.ac.in">www.nitk.ac.in</a>.

Shortlisted candidates should report to the contact person for certificate verification, followed by a test and technical interview. The interview is most likely to be held during the Third week of January 2023. Any change in the date of the interview will be intimated through email. Selection will be based on qualification, experience, test performance, and interview. TA/DA will not be paid for attending the written test and interview. NITK, Surathkal reserves the right to reject any or all the applications without assigning any reasons thereof. Selected candidates will be required to join immediately.





Title project	Numerical investigation of Green Hydrogen production from Rice Stubble using modified Red-mud catalyst in a pilot scale Fluidized Bed Gasifier
Sponsoring Company	Tecnimont Private Limited, Tecnimont House, Mumbai, Indian subsidiary of Maire Tecnimont S.p.A. Milan Italy.
Monthly Fellowships /Research grants available	Refer table 01 in P. No. 04
Number of Fellowships Available	Post-Doctoral Fellowships: Mechanical Engineering-01
Faculty/Mentors Associated from Department/Centre	Department of Mechanical Engineering
Tenure of availability of Scholarships	One year
Qualification and Experience	Post-Doctoral Fellowship  Ph.D. in the research areas related to Renewable Energy/ Waste Recycling and Circular Economy/ Thermal Engineering/Waste to Energy/Energy Engineering/Chemical Engineering/Mechanical Engineering
	Experience: Knowledge of ANSYS and FLUENT Packages and Programming Skills Should possess excellent analytical and writing skills
Desirable qualities	The candidate must be able to work independently and flexibly and having the following qualities will be desirable.  1. Basic knowledge about laboratory/benchscale work with a technical focus on the basic fundamentals to understand and optimize the process  2. Implementation: Pilot/demonstration scale or the fieldapplication projects  3. Sustainability aspects: Financial, social, environmental aspects, models and simulations, theoretical evaluation, potential analysis, decision support tools  4. Excellent analytical and writing skills
Additional information	May be obtained by contacting the Head/ CSR Project Coordinator,  Maire Tecnimont Centre for Research in Waste Recycling
T 11 C	and Circular Economy directly through email.
Last date for receipt of the application	09 <sup>th</sup> January 2023





Interested candidates may apply in the prescribed format along with CV, photo copies of relevant certificates, grade/mark sheets, publications etc., and should reach NITK on or before 09/01/2023 by post/email (scanned documents) at the prescribed address below:

Sd/

Dr. Vasudeva Madav

**CSR Project Coordinator** 

Maire Tecnimont Centre for Clean Energy Transition

National Institute of Technology Karnataka Surathkal

Email 1: mt.center-research@nitk.edu.in

Tel: +91-824-2473670, M: +91-9008889796

Faculty Associated from various Departments/Centre's NITK

From Mechanical Engineering

Dr. Vasudeva Madav and PI	
Assistant Professor,	E-mail: vasu@nitk.edu.in
Principal Investigator	
Department of Mechanical Engineering	
National Institute of Technology Karnataka SurathkalP.O:	
Srinivasanagar, Mangalore, Karnataka- 575 025	

Dr. Veershetty Gumptapure	
Associate Professor,	E-mail: <u>veersg@nitk.edu.in</u>
Co-Principal Investigator	
Department of Mechanical Engineering	
National Institute of Technology Karnataka SurathkalP.O:	
Srinivasanagar, Mangalore, Karnataka- 575 025	





#### **Eligibility: for Post-Doctoral Fellowship**

- The applicant should be an Indian citizen
- The applicant must have obtained Ph.D degree from a recognized University. Those who have submitted their PhD thesis and are awaiting award of the degree are also eligible to apply. However, such candidates, if selected, will be offered a lower fellowship amount till they qualify for the eligible degree. They must be able to provide a provisional degree certificate from the degree-awarding institute.
- MTE-PDF can be availed only once by a candidate in his/her career.

#### **Nature & Duration of Support:**

- The fellowship is tenable only in India and will be implemented at NITK, Surathkal. The Maire Tecnimont Centre for Research on Clean Energy Transition, NITK, Surathkal, and the respective department will provide necessary administrative and infrastructural support.
- The fellowship is purely a temporary assignment and is tenable for One Year.
- The fellows will be entitled to receive the grants as given in table 1 below:

Table 01: Fellowship and Research Grants

S1.	Fellowship Details	ship Details Fellowship Duration		Contingency per
No.		Amount per	(Months/Year)	Year (Rs)
		Month (Rs)		
1	Maire Tecnimont Post-	50,000/-	12/ONE	50,000/-
	Doctoral Fellowship for			
	Sustainable Development			

- Research grant can be used for minor equipment, consumables, contingencies, and domestic travel. There is no provision for providing manpower support under this scheme. The Fellow is expected to undertake the research objectives by himself/herself during the entire duration of the fellowship.
- The fellows are not eligible to receive any other fellowship from any Government or Non-Governmental source during the tenure of the fellowship.
- The fellows must seek the consent of Faculty Mentor/Project Coordinator/ Dean R&C if he/she intends to be away from NITK (except for fieldwork related to the project) continuously for a period of more than eight weeks.

#### **Selection & Mode of Application**

The call for applications for MTE-PDF, for Maire Tecnimont Centre for Research in Clean Energy Transition will be notified through the website www.nitk.ac.in

- The application form along with a research proposal highlighting the objectives of the research work to be undertaken should be submitted online through the email
- The selection will be based on the recommendations of an Expert Committee that will be constituted by the Maire Tecnimont Centre for Research on Clean Energy Transition, NITK, Surathkal and as per the procedure laid down by NITK, Surathkal
- Final Selection will be made as per the procedure laid down by NITK, Surathkal.
- If required, the applicants may be called for the personal interview.





#### **How to apply:**

For successful submission of the application the following points may be noted:

- Applicants should fill the form, which includes Bio-data, Photo, Institute, Address, etc.
- Details including Project Title (max 500 characters), Project summary (max 3000 characters), Keywords (max 6), Objectives of the project (max 1500 characters), Expected output, and outcome of the proposal (max 1500 characters) should be provided at the time of submission of the application.
- Work Methodology and Research Plan must be submitted in a single PDF file, not more than 3 pages (max 10 MB).

#### **Documents required (in PDF) should be in prescribed format:**

- Duly Filled Application
- Bio-data
- Age Proof Certificate
- Qualification Certificate
- Category Certificate (in case of Age Relaxation)
- Undertaking Certificate by the applicant (as per the attachment)
- Plagiarism undertaking

#### **Termination of the Fellowship**

- If any fellow wishes to terminate the fellowship, he/she shall inform the Maire Tecnimont Centre for Research on Clean Energy Transition, NITK, Surathkal, through the mentor immediately with one month notice.
- Maire Tecnimont Centre for Research on Clean Energy Transition, NITK, Surathkal reserves the right to terminate the Fellowship at any stage if it is convinced that appropriate progress is not being made or the grant has not been utilized properly.

#### Leave

MTE-PDF are entitled to leave as per the rules of NITK. Participation in scientific workshops held in India or abroad will be treated as on duty. As per the Govt. of India instructions issued from time to time, maternity leave would be available to female candidates in all categories.





# APPLICATION FOR MAIRE TECNIMONT POSTDOCTORAL FELLOWSHIPS FOR Maire Tecnimont Centre for Clean Energy Transition

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1. Name:							
2. Father's N	ame:						
3(a). Date of	Birth:				3(b). Nationality:		
.Contact info	rmatio	n:					
(i) Address fo communicati							
(ii) Mobile N	0:						
(iii) Email ID	):						
.Educational	Onalifi	cation	15*				
Class	Subject/ Stream			Board/ University	Name of Institute	Marks/ CGPA	Year of Passing
X							
XII							
UG Degree							
PG Degree							
MPhil							
PhD							
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Competitive	Exam		Qualified		Marks / Rar	ık	Year
CSIR-UGC NET		Yes / No					
GATE			Yes / No				

<sup>\*</sup>Attach self-attested copies of all certificates.





Organization	Designation	Duration	Responsibilities
Number of Publics	ations: (Attach a separate	e list of publications w	ith full details)
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**Note:** Attach the list of enclosures along with the application.





### Undertaking by the Fellow

I,, Son/Daughter/Wife	•
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1. I shall abide by the rules and regulations of NITK	during the entire tenure of the fellowship.
2. I shall also abide by the rules, discipline of the ins	
3. I shall devote full time to research work during th	e tenure of the fellowship
4. I shall prepare the progress report on the 25 <sup>th</sup> day	of every month and communicate the same to
Maire Tecnimont through the mentor and Project Co	ordinators
5. I shall send two copies of the consolidated progres	ss report at the end of the fellowship period.
6. I further state that I shall have no claim whatsoever	er for regular/permanent absorption on the expiry
of the fellowship.	
Date:	Signature
	~-6





### Plagiarism undertaking by the Fellow

To

Sir I hereby	certify	that	the	research	report	titled	
							submitted for as a part of MTE-
PDF fun	ding by I	Maire T	ecnim'	ont is my	original i	idea and	has not been copied/taken verbatim from
anyone o	or from a	ny othe	r sourc	es. I furthe	er certify	that this	proposal has been checked for plagiarism
through	a plagiari:	sm dete	ction t	ool i.e			_approved by the Institute and the contents
are origi	nal and n	ot copie	ed/take	n from any	one or n	nany othe	er sources.
I am aw	are of the	e UGCs	s Regu	lations on	preventio	n of Plag	giarism i.e. University Grant Commission
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