

# Partnering Opportunity

Profile status : Published

## Research Development Request

### LC-SC3-RES-1-2019-2020: Manufacturer of power electronics for wind drive trains sought for project on a Virtual Test Bench of Wind Drive Trains.

#### Summary

*A research institute of a German university currently sets up a proposal for the call "LC-SC3-RES-1-2019-2020 - Developing the next generation of renewable energy technologies". The project will develop an experimentally validated virtual test bench for wind drive trains. The organization is looking for a manufacturer of power electronics for wind drive trains to participate in the project.*

Creation Date	18 February 2020
Last Update	20 February 2020
Expiration Date	09 March 2020
Reference	RDDE20200217001
Public Link	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/9d03f283-8063-4c25-86ba-20271b7e5a38">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/9d03f283-8063-4c25-86ba-20271b7e5a38</a>

#### Details

##### Description

A research institute of a German university, which is active in the area of drive systems and power electronics is looking for partners for the above mentioned call.

The aim of the proposal is to develop an experimentally validated virtual test bench for wind drive trains using analytical and data-based methods considering uncertainties.

The consortium already consists of several European wind drive train institutes as well as companies.

The tasks of the potential partners are:

- Cooperation with manufacturers of power electronics for wind drive trains to support the development of a lifetime calculation tool.

The deadline of the call is 21 April 2020, the client will consider EOIs until 9th March 2020. However, early EOIs are preferred.

### Advantages and innovations

- Modeling the drive train model (virtual model) considering components interactions.
- Experimental verification using two full wind drive train test benches.
- Considering the uncertainty in physical modelling.
- Developing comprehensive lifetime estimation methods based on the experimentally verified models and uncertainty.
- Interdisciplinary cooperation including generator, power electronics, gearing, shaft.

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### Keywords

#### Technology

04002005	Generators, electric engines and power converters
04002009	Turbines
04005008	Wind energy

#### Market

06003003	Wind energy
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#### NACE

M.72.1.9	Other research and experimental development on natural sciences and engin
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### Network Contact

#### Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

#### Contact Person

Zebrowski Pawel

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**Open for EOI:**     **Yes**

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## Dissemination

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### Relevant sector groups

Intelligent Energy

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## Client

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### Type and Size of Organisation Behind the Profile

University

### Year Established

1831

### Already Engaged in Trans-National Cooperation

Yes

### Languages Spoken

English  
German

### Client Country

Germany

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## Partner Sought

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### Type and Role of Partner Sought

Partners are sought from industry (preferably manufacturer of power electronics for wind drive trains) to perform the following tasks within the project:  
Cooperation with manufacturers of power electronics. Their task would be to support the development of a lifetime calculation tool.

### Type and Size of Partner Sought

SME 11-50, SME <10,>500 MNE, 251-500, SME 51-250, >500

## Type of Partnership Considered

Research cooperation agreement

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## Program - Call

### Framework Program

Secure, clean and efficient energy

### Call title and identifier

LC-SC3-RES-1-2019-2020: Developing the next generation of renewable energy technologies

### Submission and evaluation scheme

single stage

### Coordinator required

No

### Duration

1872 days

### Deadline for EOI

09 Mar 2020

### Deadline of the Call

21 Apr 2020

### Weblink to the call

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/lc-sc3-res-1-2019-2020;freeTextSearchKeyword=LC-SC3-RES-1-2019-2020;typeCodes=0,1;statusCodes=31094501,31094502,31094503;programCode=null;programDivisionCode=>

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## Attachments