

# Prospective supervisor's form

Name of the supervisor: Katarzyna Zielonko-Jung

Academic title: dr hab. inż. arch.

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Department of Environmental Design

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Discipline: architecture and urbanism [AiU] none

Optional

Key words (obligatory four key words describing research interests / expertise):

# sustainable development

# ecological architecture

# urban climate

# airflow around buildings

## Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 8

2. Citations excluding self-citations WoS 7 Scopus 8

3. Hirsch index WoS 2 Scopus 2

1. The number of PhD students who have graduated under your supervision: -

2. The number of PhD students currently supervised:

a. within the current doctoral school 2

b. within doctoral studies (previous system) 1

3. Are you currently accepting new PhD students:

a. Polish Yes/No Yes

b. Foreign Yes/No No

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### Research interests or topics offered for PhD research (no more than 2000 characters)<sup>ii</sup>

My scientific interests focus primarily on the issues connected to ecological architecture, which may be defined as architecture that exerts the least harmful effect on the natural environment, at the same time attempting at the most complete fulfillment of the user needs. I am the author and the co-author of numerous publications, including the following monographs: Combining advanced and traditional technologies within ecological architecture (2012), Contemporary Ecological Architecture (2012), Shaping of ecological architecture in urban structure (2013). Moreover, I authored various chapters in monographs and articles published in scientific journals, all of which publications being in the field of ecological architectural solutions and the correlation between shape of building developments and microclimatic phenomena that occur within urban spaces, especially in terms of aerodynamic phenomena.

### Funding or special equipment needed to carry out a PhD project<sup>iii</sup>:

1. Is funding available for experimental work: *Yes/No/not needed*

No

2. Is the equipment needed to complete a PhD project

available in your lab/department: *Yes/No/not needed*

No

### Most important publications – no more than 5 published after 1.01.2018

No	Authors/title/journal	Number of points according to the current list of the Ministry of Science and Higher Education	Publication year
1.	Zielonko-Jung Katarzyna, Janiak Justyna, Trees as a Shading System for Streets on the East–West Axis: Computer Simulations for the Selected Geometrical Proportions of Building Developments in Humid Continental Climate, Sustainability	70	2019
2.	Zielonko-Jung Katarzyna, Aerodynamics in the education of prospective architects, World Transactions on Engineering and Technology Education	70	2019

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3.	Poćwierz Marta, Zielonko-Jung Katarzyna, An analysis of wind conditions at pedestrian level in the selected types of multi-family housing developments, Environmental Fluid Mechanics	100	2020
4.			
5.			

**Most recent externally funded projects you were involved in – no more than 3**

No	Project title, the name of the Principal Investigator (PI) and the institution the project was carried out	Years	Role in the project <sup>iv</sup>
1.	„Zagadnienia pro-środowiskowe w kształtowaniu zabudowy i systemów zieleni na terenach miejskich”, Zielonko-Jung K., founded by Dean of Faculty of Architecture Warsaw University of Technology	2017	PI
2.	"Miejski Budynek Jutra 2030", Zielonko-Jung K., Żach J., founded by Ministry of Science and Higher Education, carried out by Mostostal Warszawa	2009	R
3.	"Łączenie zaawansowanych i tradycyjnych technologii jako nowy kierunek poszukiwań proekologicznych we współczesnej architekturze", Zielonko-Jung K., founded by Ministry of Science and Higher Education, carried out at Warsaw Technical University	2007	PI

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### Additional relevant information – (no more than 1600 characters)<sup>v</sup>

The subjects of the currently supervised PHD thesis are:  
- the role of greenery as the solar protection of buildings,  
- biophilic design in architecture,  
- human-focus design as a method for environmental - sensitive design in architecture.

<sup>i</sup> You may select up to two disciplines out of 12 disciplines represented in the Doctoral School

<sup>ii</sup> Observe the limit of not more than 2000 characters

<sup>iii</sup> Leave only one answer

<sup>iv</sup> Select the role in the project: PI stands for principal investigator (refers to the holder of an independent grant and the lead researcher for the grant project), Co-I for co-investigator (Co-I assists the principal investigator in the management and leadership of the research project), R for researcher

<sup>v</sup> Add any other relevant information e.g. awards for PhD students whom you supervised (no more than 1600 characters)