

## **HEAD OF DEPARTMENT OF BRIDGES AND RAILWAYS**

as agreed with the Head of Faculty of Civil Engineering  
with the consent of HM Rector of Wrocław University of Science and Technology  
announces a call for applications for the post of  
**Research Assistant**  
in the field „engineering and technical sciences”  
in the discipline „civil engineering”  
with the specialisation in „structural dynamics”

An eligible applicant must meet the requirements included in Ustawa z dnia 20/07/2018 Prawo o Szkolnictwie Wyższym i Nauce and in Statut Politechniki Wrocławskiej (the Law on Higher Education and Science from 20/07/2018 and the Statute of Wrocław University of Science and Technology).

### **Responsibilities:**

- mathematical and numerical modelling of the crowd-bridge system dynamics, including pedestrian-bridge and pedestrian-pedestrian interactions,
- advanced statistical analysis of empirical data,
- development of instrumentation systems and signal processing techniques,
- generation of scientific publications,
- participation in the evaluation of the project group’s activities, as per requirements of the Polish Returns programme administered by the Polish National Agency for Academic Exchange (NAWA),
- completion and submission of a PhD dissertation during the period of employment.

### **Required:**

- postgraduate degree in engineering, physics or mathematics,
- proven academic/scientific/professional activity beyond the scope of the curriculum delivered within the programme of study,
- high proficiency in English,
- teamwork spirit.

### **Desirable:**

- knowledge of structural dynamics and biomechanics,
- track record of scientific publications in English,
- experience in physics-based modelling of dynamical systems,
- programming skills, e.g. Matlab, Python, C#, C++, OpenCV, Arduino.

### **We offer:**

- interesting job at a prestigious academic institution,
- opportunities for career progression,
- employment and social benefits,
- approximately 3800 PLN gross monthly salary.

### **Application checklist:**

- CV,
- cover letter,
- description of scientific and professional achievements including, if applicable, a list of scientific publications,
- evidence of completion of an undergraduate and/or postgraduate course in engineering, physics or mathematics,

- other documents confirming applicant's qualifications,
- statement in accordance with art. 113 Ustawy Prawo o Szkolnictwie Wyższym i Nauce z dnia 20/07/2018 (article 113 of the Law on Higher Education and Science from 20/07/2018),
- statement that, in the case the application is successful, Wrocław University of Science and Technology will be the main place of employment for the applicant, in accordance with art. 120.1 Ustawy Prawo o Szkolnictwie Wyższym i Nauce z dnia 20/07/2018 (article 120.1 of the Law on Higher Education and Science from 20/07/2018),
- certificate confirming proficiency in oral and written English, or a statement from the applicant that their English language skills are sufficient to communicate verbally and in writing at a professional level,
- GDPR statement confirming the applicant's consent for their personal data to be processed according to the requirements of the recruitment campaign related to this announcement.

The abovementioned documents, written in Polish or English, should be delivered by post or in person in a securely sealed envelope annotated „Konkurs na stanowisko asystenta badawczego w Katedrze Mostów i Kolei. Nie otwierać.” to the address: Wydział Budownictwa Lądowego i Wodnego Politechniki Wrocławskiej, Plac Grunwaldzki 11, 50-377 Wrocław, budynek C-7, pok. 502.

All applications will be considered by a dedicated hiring committee. The committee may require an interview to be conducted with all or some applicants. The job on offer is a fixed term contract, in line with the Statute of Wrocław University of Science and Technology. The employment will commence on the 1st of February 2021 and it will consist of three contracts for 18, 18 and 7 months, respectively. Therefore, the total employment period is 43 months. The continuing employment is subjected to a successful completion of progress review conducted by the project lead based on a report prepared by the successful applicant at the end of the first and second employment contract.

The successful applicant will be responsible for conducting research within the project ”STRIDE – Development of advanced pedestrian structural loading models calibrated with data from in situ measurements”, funded by the Polish National Agency for Academic Exchange (NAWA) and led by dr inż. Mateusz Bocian. Any questions should be forwarded to: [mateusz.bocian@pwr.edu.pl](mailto:mateusz.bocian@pwr.edu.pl)

The deadline for submission of applications is 1pm on the 30th of November 2020.

The outcomes of the call are expected to be announced by the 31st of December 2020.

The call can be cancelled at any time without providing a notice nor justification.

Head of Department of Bridges and Railways

prof. dr hab. inż. Jan Bień

Wrocław, 22 November 2020