

KSN 6/2022

Kraków, 01.04.2022

Call for Assistant Professor (adjunct) position in Cultural Heritage Research group

- Employer: Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland
- Research field:
 - Physics, environmental physics > analysis of the processes of dust transport and deposition on surfaces,
 - Physics, material science > study of the processes of mechanical damage of heritage objects caused by microclimate instability.
- Researcher profile: R3
- Deadline for applications: 15.05.2022, 15:00 GMT+1
- Place: Poland, Kraków
- Type of contract: for an unspecified period
- Employment contract: full-time
- Working hours/week: 40
- Start of employment: 01.07.2022
- Keywords: cultural heritage preservation, acoustic emission, deposition of particulate matter and soiling of surfaces.

Jerzy Haber Institute of Catalysis and Surface Chemistry PAS invites applications for an assistant professor (adjunct) position in the Cultural Heritage Research group.

The candidates who meet the conditions stated in the act “Ustawa o Polskiej Akademii Nauk” dated 30 April 2010 (Dz.U. 2018 poz. 1475 z póź. zm.), art 89. ust 3 for the position of assistant professor (adjunct) are encouraged to apply for the position.

The assistant professor will conduct research on the processes of damage to cultural heritage objects caused by interaction with the environment. In particular, we expect the candidate to develop research activities in the following areas, among others:

- experimental (plasmonic resonance, laser beam scattering) and theoretical (model of the subsurface layer taking into account Brown diffusion, eddy currents, thermophoresis, etc.) investigation of the transport and deposition processes of particulate matter leading to soiling of architectural surfaces in historical buildings and museums,
- non-invasive tracing of mechanical damage development in cultural heritage objects caused by climate instability using acoustic emission and interferometric methods.

Niezapominajek 8, 30-239 Krakow, Poland
phone +48 12 639 51 01
phone +48 12 425 19 23
fax +48 12 425 19 23

Bank account: Bank Gospodarstwa Krajowego
in PLN: PL 36 1130 1150 0012 1186 5820 0004
in EUR: PL 09 1130 1150 0012 1186 5820 0005
SWIFT: GOSKPLPW, VAT Number: PL 6750001805

Required education

1. Education

Doctoral degree in one of the disciplines: physics, material science, environmental physics or similar.

2. Languages

English – fluent in speech and writing.

3. Research internship

The candidate has completed at least a 6-month fellowship in a unit other than those in which the doctoral degree was obtained.

4. Research experience

At least 10 years in research in fields of physics, material science or similar.

Skills / Qualifications

1. Experience in modelling the dust deposition process on architectural surfaces confirmed by publications from the JRC list (0-10 points). The minimum number of points 1;
2. Experience in the experimental tracing of dust deposition processes in historical buildings confirmed by publications from the JRC list (0-10 points). The minimum number of points 1;
3. Experience in monitoring the process of damage development in heritage buildings, including wooden ones, (e.g. using the acoustic emission method) (0-10 points). The minimum number of points 1;
4. Experience in the study of water vapour sorption by organic materials (0-5 points);
5. Experience as a leader (coordinator) of a research project (0-5 points).

The minimum total number of points – 30.

Detailed requirements

The Candidate's application must include:

1. An application.
2. Consent to the processing of personal data for the needs necessary to carry out the recruitment process in accordance with the Act of 29 August 1997 on the protection of personal data (t.j. Dz. U. z 2016 r. poz. 922, z 2018 r. poz. 138, 723.) [[FORM](#)] and fill in the form „Consent to the processing of personal data” confirming acquainting with its content [[FORM](#)]. The form is available on the institute [website](#).
3. A copy of the PhD degree certificate.
4. Full CV (including information on maternal leaves, voluntary work and periods of work in the industry).

5. At least one opinion on the Candidate given by the previous supervisor.
6. List of scientific achievements (scientific papers, patents, patent applications, grants, etc.).

Additional information

Salary

The **gross** salary will be not less than **4700 PLN/month (approx. 1000 €)** depending on the Candidate's experience.

Selection procedure

Based on the awarded points, a ranking list of candidates will be created.

Application procedure

Applications should be sent in the electronic form to: sekretariat@ikifp.edu.pl, with the message subject „CHR – adjunct – KSN 6/2022”

Deadline for applications: 15.05.2022, 15:00 GMT+1. The competition will be settled by 15.06.2022. The candidates will be notified of the results.

The employment will be carried out in accordance with the provisions for an unspecified period.

Note

The Institute has been adapted to the needs of the disabled. The Institute does not provide accommodation. The recruitment process is conducted according to [OTM-R policy](#).