



KSN 12/2020

Kraków, 24.11.2020

## Research assistant in the Cultural Heritage Research Group

- Employer: Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland
- Research field:
  - Applied computer science > software development for quantitative risk analysis of historic materials.
- Researcher profile: R1 or R2
- Deadline for applications: 28.12.2020, time 15.00 GMT+1
- Place: Poland, Krakow
- Type of Contract: at least 24 months
- Job Status: full time
- Working hours/week: 40
- Start of employment: 01.02.2021

Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland opens a position of a Research Assistant involved in the implementation of the NAWA-Craquelure and IPERION-HS projects in the Cultural Heritage Research Group of the Institute.

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. U st. 5 for the position of research assistant are encouraged to apply for the position.

The Research Assistant, supervised by the group leader, will work on the development of a website for quantitative risk analysis of historic objects. The developed software is a web tool supporting the decision-making process related to the conditions during the exhibition and storing collections as well as in shaping the loan policy between museums addressed to restorers, registrars and managers of cultural heritage institutions. The website, designed as an integrated platform based on the client-server architecture, will enable calculation of the quantitative risk assessment of objects deterioration, taking into account various types of risk agents such as inappropriate environmental parameters (temperature, relative humidity, light intensity, etc.), fire or the deposition of particles on architectural surfaces.



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The Research Assistant will be responsible for:

- developing and modifying the HERIE module to calculate the risk of incorrect temperature and relative humidity;
- customization and improvement of the functionality of the HERIE module taking into account new requirements and suggestions of users;
- development of other modules for risk assessment related to physical processes.

### Required education:

Master degree in one of the following disciplines: applied computer science, physics or similar.

### Skills/Qualifications:

1. C# programming language;
2. Basic knowledge of database programming (Microsoft SQL Server);
3. Knowledge of the .NET core framework technology that enables the creation of web applications and the back-end of web applications using the MVC pattern will be an additional advantage.

### Specific requirements:

- An application,
- 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.) and fill in the form „Consent to the processing of personal confirming acquainting with its content. The form is available on the institute website [[FORM](#)],
- A copy of master or doctoral degree certificate,
- Full CV (including information on maternal leaves, voluntary work and periods of work in the industry),
- At least one opinion on the Candidate, preferentially given by an independent researcher,
- List of scientific achievements (scientific papers, implementations, grants etc.).



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### Languages:

Fluent in written and spoken English

### Research experience:

Experience in programming web applications with database elements.

### Additional information:

#### Remuneration:

The gross salary 7000-8500 PLN/month (roughly 1500-1900 Euro/month) depending on the Candidate's experience.

#### Eligibility criteria:

- Proven experience in programming web applications,
- Master degree in one of the stated disciplines. PhD degree in the above disciplines will be additionally valued.

#### Selection process:

Applications should be sent in the electronic form to: [ncikifp@cyf-kr.edu.pl](mailto:ncikifp@cyf-kr.edu.pl) with the subject title „CHR – assistant - KSN 12/2020”

Deadline for applications: 28.12.2020 at 15:00 GMT+1. The competition will be settled by 24.01.2021. The candidates will be notified of the results.

The employment will be proceeded in accordance to the rules of the Labour Code for at least 24 months.

#### Additional information:

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](#)