

KSN 2/2020

Kraków, 19.03.2020

Assistant professor in the group of Surface Nanostructures

- Employer: Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, Krakow, Poland
- Research field:
 - surface science
- Researcher profile: R2
- Deadline for applications: 20.04.2020, 15:00 – CEST
- Place: Poland, Kraków
- Type of contract: temporary
- Employment contract: full-time
- Working hours/week: 40
- Start of employment: 1.06.2020

Jerzy Haber Institute of Catalysis and Surface Chemistry PAS invites applications for an Assistant Professor Position in the “Surface Nanostructures” group.

The candidates who meet the conditions stated in the act “Ustawa o Polskiej Akademii Nauk” dated 30 April 2010 (Dz.U. 2019 poz. 1183 z póź. zm.), art 89. ust 2 for the position of Assistant Professor are encouraged to apply for the position.

The candidate will participate in the study of structural, electronic and magnetic properties of surfaces and nanostructures carried out under ultra-high vacuum (UHV) conditions using microscopic and spectroscopic techniques and synchrotron radiation.

Research will include:

- epitaxial metal oxides and their phase transformations,
- oxide-metal nanostructures for spintronic applications,
- metallic and oxide nanoparticles on monocrystalline substrates.

The assistant professor will be responsible for:

- preparation of nanostructures by molecular beam epitaxy (MBE),
- preparation of monocrystalline surfaces for microscopic and spectroscopic studies,
- surface and nanostructure studies using low energy electron microscope / photoemission electron microscope (LEEM / PEEM), scanning tunneling microscopy (STM), photoemission spectroscopy (XPS) and synchrotron methods,
- adsorption studies by temperature programmed desorption (TPD),
- analysis of the correlation between the structure, morphology and composition of the surface nanostructures and their magnetic and chemical properties,
- writing scientific papers,
- preparation of grant applications that will provide support funding for the conducted research.

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Required education:

- PhD in chemistry, physics, or related discipline.

Skills/qualifications:

- Experience in studies of single crystal surfaces and epitaxial layers under ultra high vacuum confirmed by publications from the JCR list;
- Experience in surface characterization using LEEM / PEEM electron microscopy and synchrotron methods confirmed by publications from the JCR list;
- Experience in adsorption studies by TPD confirmed by publications from the JCR list.
- Scientific achievements in the form of scientific publications and conference presentations.

Specific requirements

The Candidate should submit the following documents:

- 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 „Obowiązek informacyjny dla osób mających podjąć pracę/współpracę” confirming acquainting with its content. The form is available on the institute website [[FORM](#)].
- A copy of scientific degree certificate
- Full CV (including information on maternal leaves, voluntary work, scientific stays in research entities, etc.),
- At least one opinion on the Candidate given by an independent researcher,
- List of scientific achievements (incl. list of publications and patents),
- Copies of 3 best publications connected to the topic/ required qualifications of the call.
- The Candidate's own report on his/her scientific interests and research aims (one A4 page).

Languages:

- Fluent written and spoken English.

Research experience

- experience in surface studies of single crystals and epitaxial films under UHV conditions, including preparation and physicochemical characterization of surface with the following methods: PEEM/LEEM, XPS, STM, TPD and synchrotron methods.

Additional information:

Remuneration:

- The brutto salary will be 4680 PLN/month or higher depending on the Candidate's experience.

Eligibility criteria:

- experience in conducting research of single crystal surfaces and epitaxial layers under ultra-high vacuum confirmed by publications from the JCR list,
- Experience in surface characterization using LEEM / PEEM electron microscopy and synchrotron methods confirmed by publications from the JCR list,
- Experience in adsorption studies by TPD confirmed by publications from the JCR list,
- Scientific stay(s) in institutions other than where PhD studies were done – 6 months minimum.

Selection process:

- Applications should be sent in electronic form to: ncikifp@cyf-kr.edu.pl, with the message subject “Assistant professor – Surface Nanostructures KSN 2/2020”
- Deadline for applications: 20.04.2020 at 3:00 pm CEST. The competition will be settled by 15th of May 2020. The candidates will be notified of the results.
- The employment will be proceeded with accordance to the rules of Labour Code for at least 12 months.

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](#).