

ASSISTANT PROFESSOR in HETEROGENEOUS CATALYSIS: THEORY AND EXPERIMENT

- Employer: Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland
- Research field:
 - Chemistry -> heterogeneous catalysis, instrumental technique (NMR)
- Researcher profile: R3
- Deadline for applications: 15.11.2019, 15:00 – CEST
- Place: Poland, Kraków
- Type of contract: temporary
- Employment contract: full-time
- Working hours/week: 40
- Start of employment: 1.01.2020

Jerzy Haber Institute of Catalysis and Surface Chemistry PAS invites applications for an Assistant Professor Position in the “HETEROGENEOUS CATALYSIS: THEORY AND EXPERIMENT” 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 4 for the position of Assistant Professor are encouraged to apply for the position.

The Candidate will participate in research conducted in the group HETEROGENEOUS CATALYSIS: THEORY AND EXPERIMENT which aim at study of catalytic activity of oxide-based materials to obtain high value added products – components of fuels and plastics

In particular the Assistant Professor will be responsible for:

- Advanced solid state NMR tests.
- Operation of the NMR apparatus and ensuring continuity of work in the MNR laboratory.
- Participation in the studies of host-guest interactions in micro- and meso-porous materials.

- Required education:

PhD in chemistry, physics, or related discipline.

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- Skills/qualifications:

- Experience in NMR technique for solid state characterization, in particular for micro- and meso-porous materials, including zeolites.
- Synthesis of zeolite nanoparticles.
- Experience in the following physicochemical techniques for characterization of catalysts: IR, TPD, TPR, XRD.
- Experience in running catalytic tests.

- Specific requirements

The Candidate should submit the following documents:

- An application.
- An agreement to process personal data according to GDPR regulation <http://www.ik-pan.krakow.pl/RODO.946.0.html>,
- A copy of scientific degree certificate ^[1]_[SEP]
- 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),
- 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 heterogeneous catalysis, including physicochemical characterisation of catalysts with the following methods: NMR, IR, TPD, TPR, XRD. Experience in synthesis and modification of zeolitic materials. Experience in running catalytic tests. Experience in working with glove-box.

- Additional information:

- Remuneration:

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

- Eligibility criteria:

Practical experience in conducting research in heterogeneous catalysis and structural studies by NMR technique proven by scientific achievements (publications from JRC list and/or patents/ patent

applications). 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 “adjunct professor – HETEROGENEOUS CATALYSIS: THEORY AND EXPERIMENT”

Deadline for applications: 15.11.2019 at 3:00 pm CEST. The competition will be settled by the end of December 2019. The candidates will be notified of the results.

The employment will be proceeded with accordance to the rules of Labour Code for 33 months.

- Additional information:

The Institute has been adapted to the needs of the disabled. The Institute does not provide accommodation.