

UNIVERSITY OF PARDUBICE, Faculty of Chemical Technology

Is seeking 1 researcher for the position of a

SPECIALIST IN INORGANIC MATERIALS RESEARCH FOR OPTICS AND ELECTRONICS - POSTDOC

Research area:

Chemistry and physics of solid state/inorganic materials, material sciences and related fields of study

Job description:

Complex study of chalcogenide glasses as perspective materials in optics and electronics. Handling all parts of research from preparation of materials to practical implementation - the impact of chosen technology of material preparation on its quality and characteristics, characterisation of structure and optical properties of prepared materials, practical utilisation of observed properties and phenomena for fabrication of optical elements or microstructures for optics and electronics. Preparation of thin amorphous films using various methods of deposition, e.g. magnetron sputtering, vacuum thermal evaporation, pulsed laser deposition etc. Study of optical properties and structure of thin films, multilayers, including nanometer scale.

The Postdoc will actively participate in experimental work as well as in processing and analysis of experimental data.

The Postdoc will be obliged to organise a seminar/workshop for his/her colleagues or other scholars on research achievements, experience from abroad, possibilities of cooperation etc.

Goals and expected contribution:

Knowledge transfer and the transfer of experimental methods used by the Postdoc focused on practical application of amorphous chalcogenides in optics and electronics.

The applicant is required:

- To be a postdoc, i.e. research worker within 7 years of gaining the PhD or its equivalent¹ (ISCED level 8) to the date of December 22, 2017 and
- Within the last 3 years (to the date of December 22, 2017) held a research position outside the CR extending to at least 50% of the full-time workload for at least 2 years, or was a PhD student abroad, and
- To demonstrate publication activity by submitting list of his/her publications (listed in the databases Thomson Reuters Web of Science, Scopus or ERIH PLUS, types of publications including "article", "book chapters", "letter" and "review") – at least 2 items within the last 3 years (to the date of December 22, 2017),
- To have successfully finished the PhD study in the field of chemistry or physics of solid state/inorganic materials, material sciences or related fields of study,
- To be familiar with and experienced in the preparation of chalcogenide glasses, thin films using physical deposition techniques, characterisation of glassy materials and amorphous thin films (optical properties, structure),
- To have excellent knowledge of the English language (written as well as spoken).

Successful applicants should not have any type of employment at another university or other institution. Any exception from this rule must be based on an application submitted during the selection process.

Job location:

University of Pardubice, Faculty of Chemical Technology, Department of Graphic Arts and Photophysics, Pardubice, Czech Republic

¹ The stated time limit may be extended by a period spent by the applicant on maternity leave or sick leave longer than 90 days, caring for a family member (more than 90 days), sabbatical, or military service.

We offer:

- Fixed term contract for 24 months
- Expected contract start on February 1st 2018
- Full-time contract (8 hours/day, working hours 8:00 – 16:30)
- Gross pay per month: 63.151,-- CZK
- Employee benefits – paid holiday, subsidised meals
- Pleasant working environment, training

The application must contain:

- Application form (filled in)
- Professional CV
- PhD Diploma, or its nostrification
- Certificate of an English language exam – passed as a part of study or a declaration of a passed English language exam from the institution granting the PhD. Degree²
- Documents proving the applicant's scientific experience outside the Czech Republic
- List of publications concerning the last 3 years (to the date of December 22, 2017))
- List and a brief description of funded research projects and grants (national and international) in which the applicant participated within the last 3 years (specifying the source of funding, position in the project and level of involvement – e.g. number of person-months), to the date of December 22, 2017
- List of internships (abroad, in the industry) within the last 3 years (to the date of December 22, 2017) and their brief description
- Cover letter incl. the specification of the applicant's contribution to the new workplace
- Brief description of the applicant's current research incl. its relevance and usefulness for the field of study
- Reference of a previous supervisor or head of research team in which the applicant participated

All the above documents will be submitted in English. The diploma or its nostrification and the Certificate of English language examination can be submitted in Czech or Slovak. Documents in a language other than Czech, Slovak or English, must be submitted in a certified translation into one of these languages. Simple copy (printed or electronic) is sufficient for this selection procedure.

Applications including the attachments are to be sent in at the latest by 22 December 2017 in electronic form to the address libuse.cermanova@upce.cz or in printed form to the postal address:

Ing. Libuše Cermanová
Univerzita Pardubice
Studentská 95
532 10 Pardubice

(Please write "Do not open – selection procedure" on the left side of the envelope)

Selection procedure, selection criteria and their evaluation:
enclosed file

Information about the results of the selection procedure will be published on the University of Pardubice website (<https://www.upce.cz/en>). You will also be notified of the results in writing (by e-mail and by post) and you will receive your personal protocol. This protocol will include the description of the process of appeal with its time schedule.

Time schedule of the selection procedure:

Publication: till 8 December 2017

Submission of the required documents: till 22 December 2017

Evaluation: till 5 January 2018

Notification of results and publication of results on the University of Pardubice website: on the date of 12 January 2018

This position is sought for the project International Mobility of Research Workers at the University of Pardubice submitted as a part of the Operational Programme Science, Development and Education no. 02_16_027.

² Does not concern applicants whose mother tongue is English.