

INVESTMENTS IN EDUCATION DEVELOPMENT

**The Director of the Institute for Nanomaterials, Advanced Technology and Innovation of the Technical University of Liberec in accordance with the project “Development of research teams of R&D projects at the Technical University of Liberec”, No. CZ.1.07/2.3.00/30.0024 announces the following selection procedure for the position:**

**UNIVERSITY POST-DOCTORATE OF THE INSTITUTE FOR NANOMATERIALS, ADVANCED TECHNOLOGY AND INNOVATION**

Č. j.: 13/08110/064  
Datum: 13. 6. 2013

***Characteristics:***

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Active participation in science and research projects of individual laboratories of the Institute for Nanomaterials, Advanced Technology and Innovation (hereinafter referred to as CxI) in the fields of Material Research. The Post-Doctorate (hereinafter referred to as Postdoc) will be incorporated into already running R&D projects and will also be involved in the preparation of new R&D projects. They will also participate in the search for new challenges and partners for Contract Research. Other tasks involving the CxI as well as other technical faculties of the Technical University of Liberec (hereinafter referred to as TUL) will include the following:

- completion of internship abroad or practice in industry for the period of 3 to 6 months
- teaching of students for a period of 3-5 hours per week
- management of diploma theses (1 Postdoc shall manage 1-3 diploma theses per year)
- provision of counseling to students in doctoral programs during the preparation of dissertations
- publication of outputs in impact journals under the address CxI TUL
- active participation in the preparation of the results of applied research - patents, utility models - and their application in practice
- active participation at professional conferences, seminars and workshops

***Postdoc position is available in the following research area:***

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**A) Material Research**

***Evaluation of nanolayers*** – The Postdoc will participate in the research and development of polymeric materials, nanostructured materials and plasma methods. The aim is to activate the surface, after which there is a significant change mechanical, physical and chemical properties. Important applications of thin films are used in medicine and engineering. Contact person (Postdoc mentor): ***Prof. Petr Louda, MSc, Ph.D. Number of vacancies: 1. Required Education: University degree in natural or technical sciences focused on material engineering.***

***Required skills and experience:***

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- good knowledge of Czech or English language both written and spoken (CAE or equivalent). This shall be demonstrated by attaching a certificate or annex which makes up a compulsory part of their CV.
- experience in research and scientific activities

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- experience with the management and implementation of R&D projects in the industrial and/or academic sphere

#### *Required education:*

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- university degree in the relevant field (see above listed position)
- doctoral studies at a University in the Czech Republic or equivalent degree from a foreign university completed no earlier than the 29<sup>th</sup> of March 2008

#### *Terms of employment:*

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- fulltime at the Technical University of Liberec
- the contract will be concluded for the duration of the project – till the 31th of December 2014
- employment only in the Czech Republic

#### *Salary:*

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- C3 according to the internal wage structure of TUL (45 000,- CZK - monthly)

#### *Starting date:*

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- September 2013, or based on agreement

#### *We Offer:*

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- opportunity for self-realization in an emerging workplace
- opportunity to increase your professional level and establish cooperation in science and research on a national and international scale
- comfortable working environment
- interesting, varied and responsible work
- flexible working hours
- child minding possibilities
- language courses

Working conditions and salary are governed by the conditions of employment and the internal wage structure of the Technical University of Liberec, the Labor Code and the selection rules for academic and other staff at the Technical University of Liberec.

#### *The job application shall be marked “post-doctorate” and must be accompanied by the following documents:*

- a) a brief curriculum vitae
- b) existing professional, scientific and research activities, including internships completed
- c) a summary of the most important papers in which the applicant was author or co-author, which shall contain the following information (specimen):  
[1] NOVÁKOVÁ, M.; NOVÁK, J. Biomaterials based on nanofiber layers. E+M Economics and Management, 2011, Vol. 10, No. 2, pp. 118-127. ISSN 1212-3609. Abstract of article.
- d) an overview of patents and/or utility models, in which the candidate was the author or co-author. The overview of patents and/or utility model shall contain the following information (specimen):  
[1] Applicant: Sheem S. K. Low-Cost Optic Pressure Sensor. US Patent 6,738,537, May 18, 2004. Brief description of the patent or utility model.
- e) evidence of professional qualification or previous work references
- f) CAE certificate or equivalent in the case the applicant is not a Czech national

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- g) evidence of completion of education, i.e. photocopies of documents proving the completion of doctoral studies at a university in the Czech Republic or an equivalent degree from a foreign university from no earlier than the 29<sup>th</sup> of March 2008, and any membership of a professional society.

*Postdoc selection process:*

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*The selection process shall take place in two stages. The Selection Committee shall assign each Candidate a score, with the maximum basic number of points (without bonus points) being 100. The second round is divided into 2 phases.*

*The first round of the selection process shall take place based on an assessment of the documents received and the qualifications of the individual Candidates. At this stage the Candidates will be assessed as to whether they meet the following parameters:*

- I. The Candidate has completed doctoral studies in the required field at a university in the Czech Republic or an equivalent degree from a foreign university no earlier than the 29<sup>th</sup> of March 2008.*
- II. The Candidate has good knowledge of Czech or English (CAE or equivalent). This shall be demonstrated by attaching a certificate or annex which makes up a compulsory part of their CV*

*Candidates who do not meet the above parameters shall be excluded from the selection process. Candidates who fulfill the qualification parameters are evaluated in the second round by at least a three-member Evaluation Committee. Candidates advancing to the second round will be evaluated based on the following criteria:*

- I. Number and quality of papers in impact journals and other publications. Points will be awarded so that the candidate with the best score will receive 50 points. Other candidates will be awarded points according to the following formula:*

*Number of points = 50 x numerical rating of publication criteria of the candidate / numerical rating of publication criteria for the candidate with the best rating for the given position..*

- II. Number of patents or utility models in which the candidate is the author or co-author.*

*The number of points is set so that candidate with the highest number of patents and utility models will be awarded 20 points. The other candidates are awarded points according to the following formula:*

*Number of points = 20 x the numerical rating of the patent criteria of the candidate / the numerical rating of the patent criteria of the candidate with the best rating for the given position*



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*The numerical evaluation of publications and patent criteria will use the current science and research evaluation methodology of the Research and Development Council of the Government of the Czech Republic - see [www.vyzkum.cz](http://www.vyzkum.cz)*

*In the second round of the selection process the selected candidates will be invited to a structured interview to evaluate their motivation for the Postdoc position and to assess the quality of their results achieved to-date. The maximum number of points that the selection committee can assign candidates based on the results of the structured interview is 30 points.*

*Both rounds of the selection procedure can be carried out immediately after each other. The recommended rank in the given research area of the candidate is established based on an assessment of the completed rounds of the selection procedure.*

*A fifteen percent bonus to the basic point rating will be awarded to those candidates who:*

- I. within the last 3 years graduated from a postdoctoral internship abroad which lasted at least one year,*
- II. were employed during the last 3 years in industrial research for at least one year.*

*If the candidate falls into more than one category then the bonus will be cumulative.*

*The winning candidate will be the candidate who receives the highest number of points.*

*The recommended rank of the candidate in the given research area is established based on an assessment of the completed rounds of the selection procedure. This is then submitted to the Rector of TUL for approval.*

*All candidates will be informed of the result within 30 days of the end of the selection process. Results and protocols of the evaluation interviews with the individual candidates will also be published on the website of TUL*

*Applications shall be sent along with the required documents by email or by post to the following address no later than 18<sup>th</sup> July 2013.*

**Technical University of Liberec  
Organization and Personnel Department  
Studentská 2  
461 17 Liberec 1**

Contact person: Ing. Alena Šírková, Organization and Personnel Department  
E-mail: [volnamista@tul.cz](mailto:volnamista@tul.cz)

*The selection procedure will be published on the 17<sup>th</sup> June 2013 on the Official Board of the Technical University of Liberec (see: [http://www.tul.cz/urednideska/uredni-deska-tul/vyberova-rizeni-volna-mista\\_107](http://www.tul.cz/urednideska/uredni-deska-tul/vyberova-rizeni-volna-mista_107)) and on the website of the Ministry of Labor (see: <http://portal.mpsv.cz/sz>). The selection procedure will also be advertised in the following*



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*periodicals and websites: Lidové noviny, www.euraxess.cz, www.postdocjobs.com, www.phdjobs.com, www.ec.europa.eu/eures/, <http://cxi.tul.cz/>.*