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|  JOB OFFER |
| Position in the project:  | PhD student |
| Scientific discipline: | Physics |
| Job type (employment contract/stipend): | Scholarship |
| Number of job offers:  | 1 |
| Remuneration/stipend amount/month  | 5000 PLN |
| Position starts on:  | 01.10.2021 |
| Maximum period of contract/stipend agreement: | 32 months with possible extension |
| Institution:  | NanoBioMedical Centre, Adam Mickiewicz University in Poznan, Poland |
| Project leader: | Prof. dr hab. Stefan Jurga |
| Project title: | 2D regular nanostructures for lasing and sensing applications (LaSensA)*Project is carried out within the M-ERA.NET Call 2020.* |
| Project description: | Consortium project of the NanoBioMedical Centre AMU, Kaunas University of Technology, Leibniz-Institut für Polymerforschung Dresden, National Institute for Materials Science in Tsukuba and the Nanoversa company.Metal nanostructures support local oscillations of conduction electrons. When excited by an external electromagnetic field with a matching resonant frequency, they generate a localized surface plasmon resonance (LSPR). The resonant frequency depends on the size, shape, material and the dielectric environment of the nanostructure. Use of the selective response of nanoparticles has found multiple applications in the field of optics and contributed to the development of the evolving field of plasmonics. Current applications of LSPR can be categorized into three areas: (i) LSPR sensing and detection, (ii) concentration of light to enhance or manipulate the optical response of nearby molecules and (iii) manipulation of light with plasmonic circuitry. New type LSPR-based nanostructures enable creation of innovative products, such as photovoltaic components, active plasmonics, lasers, metamaterials, dichroic filters, multidimensional data storage, 2nd and 3rd order nonlinearity enhancing materials, structural coloring, etc. Devices based on plasmonics are usually created by employing self-organization (bottom-up) or nanolithography (top-down) techniques. Such applications dictate extremely high requirements for spatial resolution of lithography, therefore, up-scalable nano-patterning methods based on self-organization and controlled nanostructure formation are highly desirable. 1-D and 2-D nanostructures, including nanoparticles, may be used as building blocks for sophisticated optical devices. |
| Key responsibilities include: | The PhD student will be responsible for fabrication and characterization of plasmonic nanostructures and designing plasmonic devices for applications in biosensing. |
| Profile of candidates/requirements: | Completed MSc course in physics or chemistry (or related sciences, e.g. materials engineering);Readiness to dedicate to scientific work;Flexible working hours;Basic experience in laboratory work;Very good English communication skills.Welcomed, but optional: experience in nanofabrication techniques, optics, Raman spectroscopy and/or AFM. |
| Required documents: | Motivation letter;Curriculum vitae with a list of publications and conference appearances (if applicable);Copy of the MSc diploma (or an official document confirming the MSc thesis defense date not later than one week before the start of the project); (in case of academic degrees obtained abroad – the documents must meet the equivalence criteria set out in Article 328 of the Act of 20 July 2018 Law on Higher Eductaion and Science (Journal of Laws of 2021, item 478 i.e. as amended; Polish; Dziennik Ustaw 2021 poz. 478);Letter of reference from a scientific advisor (not necessarily the MSc thesis supervisor). |
| We offer: | Realization of a PhD thesis in an interdisciplinary research group, work on high-class scientific equipment located in a modern research centre, participation in scientific exchange with partners of the project, presentation of scientific results on conferences and co-authorship of publications. |
| Please submit the following documents to: | cnbmadm@amu.edu.pl (with a copy to mwiesner@amu.edu.pl) |
| Application deadline: | 25.08.2021Selected candidates will be asked for a job interview on 30.08.2021 (via the Internet). |
| For more details about the position, please visit (website/webpage address): | http://cnbm.amu.edu.pl |
| Please include in your offer:“In accordance with Article 6(1)(a) of the General Data Protection Regulation of 27 April 2016 (Journal of Laws of the EU L 119/1 of 4 May 2016) I agree to the processing of personal data other than those indicated in Article 221 of the Labour Code (name(s) and surname; parents' names; date of birth; place of residence; address for correspondence; education; previous employment), included in my job offer for the purpose of current recruitment.**Information clause for jobseekers** Pursuant to Article 13 of Regulation (EU) No. 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC - General Regulation on data protection (Official Journal of the European Union L 119/1 of 04.05.2016) I hereby inform you that. 1. The Controller of your personal data is Adam Mickiewicz University in Poznań with its registered office at 1, Henryka Wieniawskiego Street, 61-712 Poznań.
2. The controller of personal data has appointed a Data Protection Inspector to supervise the correctness of personal data processing, who can be contacted via e-mail address: iod@amu.edu.pl.
3. The purpose of the processing of your personal data is to carry out the recruitment process for the indicated position.
4. The legal basis for the processing of your personal data is Article 6(1)(a) of the General Data Protection Regulation of 27 April 2016 and the Labour Code of 26 June 1974 (Journal of Laws of 1998, N21, item 94, as amended).
5. Your personal data will be stored for a period of 6 months from the end of the recruitment process.
6. Your personal data will not be made available to other entities, except for entities authorized by law. Access to your data will be granted to persons authorized by the Controller to process them within the scope of their professional duties.
7. You have the right to access your data and, subject to the provisions of law, the right to rectify, delete, restrict the processing, the right to transfer data, the right to object to the processing, the right to withdraw consent at any time.
8. You have the right to lodge a complaint to the supervisory authority - the President of the Office for Personal Data Protection, ul. Stawki 2, 00-193 Warszawa.
9. Provision of personal data is obligatory on the basis of legal regulations, in the remaining scope it is voluntary.
10. With regard to your personal data, decisions will not be taken automatically, in accordance with Article 22 RODO.
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