



**INSTITUTUL NATIONAL DE CERCETARE-
DEZVOLTARE PENTRU TEHNOLOGII IZOTOPICE SI
MOLECULARE**

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Job announcement

National Institute for Research and Development for Isotopic and Molecular Technologies Cluj-Napoca, organizes a selection procedure in order to occupy **3 full time positions of Research Assistant**, within the research project **80PCCDI/2018 „Emerging technologies for the industrial capitalization of 2D structures (graphene and nongraphenic)” acronym- EMERG2Ind**, project code: PN-III-P1-1.2-PCCDI-2017-0387.

Position's level: research assistant

Position's type: full time, fixed period (during the project period + 2 years)

The employment period: December 2018- December 2022

Job Description:

The selected candidates will participate in the development of emerging technologies for the industrial capitalization of 2D structures (graphene and nongraphenic).

Responsibilities within the project:

- Continuous renewal of knowledge necessary to perform assigned tasks within the project;
- Sustained training and expertise improvement in the topic of the post;
- To contribute, according to the candidate expertise, to one (or several) research tasks specified in the project: i) toxicological study on the action of graphene and nongraphenic nanoparticles on epidermal, bronchial and pulmonary cells; ii) the thin films deposition with controllable thicknesses using molecular beam epitaxy (MBE) in ultra-high vacuum; iii) fabrication of micro / nano structured surfaces by using nanoimprint lithography (NIL); iv) Optimization of the micro / nano structured surfaces fabrication process and characterization of surface topography by scanning microscopy techniques (AFM, STM);
- Contributions in the processing and dissemination of the results assessed within the project;

Job requirements

- The candidate must be a graduate with a bachelor's degree in one of the following physical / chemistry / biology and related fields;
- Experience in the use of laboratory equipment;
- PC operation skills (word, excel, power point) possibly other specialized programs in the field;
- Languages: English (medium - written and spoken);

The application files should include:

- Application form (can be downloaded from the institute's website www.itim-cj.ro/cariere);
- Curriculum vitae both in Romanian and English (EuroPass model);
- Letter of intent;
- Scientific Publication list;
- Copies of study documents (high school graduation certificate, bachelor certificate with transcript of records, Master certificate with transcript of records, PhD certificate);
- Copies of: Birth certificate, ID card (passport), civil status certificate;
- Copy of working contracts/work experience/proof of enrolment in a PhD program.

The selection of the candidates will be based on: their application files (eliminary) and the interview. For the interview, the applicant should prepare a brief description of his/her research activity.

Applications should be submitted at INCDTIM Cluj-Napoca, Human resources Department before **October 5, 2018**. For supplementary information, call: 0264-584037/191; <http://www.itim-cj.ro/cariera>

Time and place of the interview: 11.10.2018, 12AM, INCDTIM, building A, room A0.13.02.

**General Manager,
Dr. Ing. Adrian BOT**

