



OPPORTUNITIES FOR FUNDED, WORLD- CLASS RESEARCH IN MATERIAL SCIENCE IN LATVIA



INSTITUTE OF SOLID STATE PHYSICS
UNIVERSITY OF LATVIA

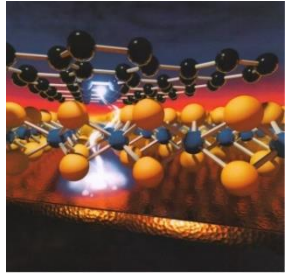


INSTITUTE OF SOLID STATE PHYSICS UNIVERSITY OF LATVIA



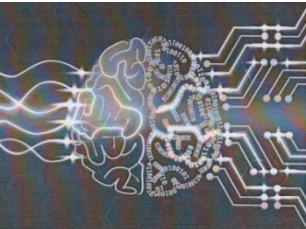
- The Institute of Solid State Physics, University of Latvia welcomes eligible candidates interested in applying for PostDoc Latvia and Marie Curie Individual Fellowships.
- The success rate in *PostDoc Latvia* program is around 50%.
- The success rate in *Marie Curie Individual Fellowships* is more than 14%, but the chances of the application success are considerably enhanced by the new Widening Fellowships call addressed to the new EU member states (including Latvia) and associated countries.

FIVE RESEARCH DOMAINS



We are looking for applicants of any nationality with PhD degree willing to do research in these topics:

- Computational Material Science& Modelling,
 - Energy,
 - Sensors and Actuators,
 - Photonics& Micro& Nanoelectronics,
 - Films& Coatings& Interfaces
-
- If interested, please [submit](#) a brief CV along with an outline of the proposed project to Andris.Sternbergs@cfi.lu.lv



MORE ON



PostDoc
Latvia



- The goal of the program is to develop the skills of new scientists and to increase the scientific capacity, ensuring the possibilities for new scientists to start a career in scientific institutions and with enterprises, as well as improvement of research competences, renewal of human resources and increase in the number of qualified specialists.
- One grant up to 133 806 euros and 36 months to perform research in Latvia, including:
 - full time employment contract with salary 2 731 euros per month including all taxes;
 - other research expenses, such as costs of materials, protection of technology rights, external services, data processing, training and networking measures, set at 800 euros per month;
 - administrative costs set at 185,83 euros per month (for institution).
- Research applicant must be Postdoctoral researcher - a Latvian or foreign researcher who has acquired doctorate not more than five years before the deadline for submitting the research application. This time period may be extended for a period of two years, if the person has a justified reason:
 - parental leave;
 - temporary work disability.

MORE ON MARIE CURIE INDIVIDUAL FELLOWSHIPS



- The goal of the Marie Skłodowska-Curie (MSC) Individual Fellowships, funded from the EU Horizon 2020 programme, is to support the career development of a researcher through mobility. The call for applications for the 2019 and 2020 Marie Skłodowska-Curie Individual Fellowships opens in April on the [Participant Portal of Horizon 2020](#). The researcher writes a project proposal in liaison with the host organization according to the call conditions, final submission deadline being September 2019 and 2020.
- Applications can be submitted by researchers who:
 - are in possession of a PhD degree or have at least 4 years of full-time equivalent research experience after obtaining the degree that would enable them to embark on a PhD;
 - The so-called mobility rule applies: the researcher will not have worked or resided more than 12 months in the last 3 years in the country of the host organization (in case of career restart and reintegration panels: no more than 36 months in the last 5 years).
- Researcher unit cost consists of living allowance of 4880 euros including taxes (country correction coefficient of 75,9% applies in Latvia), mobility allowance of 600 euros and family allowance of 500 euros every month. Institutional unit cost consists of research, networking and training costs of 800 euros and management and indirect costs of 650 euros every month.
- Standart European Fellowship offers research funding up to 24 months.
- For a more detailed description of the rules, please see the [GUIDE FOR APPLICANTS](#)

MORE ON HOST INSTITUTION



- ISSP UL is one of the leading institutes on material science in Baltic sea region; it is coordinator of largest and most ambitious project of European Commission research & innovation program Horizon 2020 in Baltics : CAMART²
- Our CAMART² proposal is the 5th best proposal among 169 projects submitted to European Commission (the only supported project in the nearest 1500km) indicating the quality of the partners: KTH Royal Institute of Technology in Sweden and Swedish ICT RISE (Acreo), and project team;



- CAMART² have strong support from Latvian government and University of Latvia;
- CAMART² = The Excellence Centre of Advanced Material Research and Technology Transfer

MORE ON CAMART²



- **Teaming project** (H2020 Widespread 2014-1 «Teaming») aims to foster knowledge transfer via partnership between internationally leading scientific institutions **by supporting the creation of new centres of excellence or upgrading existing ones** in low RDI performing countries doing strong collaboration with businesses and building strong infrastructure base for enabling business oriented research and technology transfer (TT) activities.

THEMATIC SPECIALIZATION OF CENTRE OF EXCELLENCE



In line with **RIS3 strategy of Latvia:**

- Thin films and coating technologies;
- Functional materials for **electronics and photonics**;
- **Nanotechnology**, nanocomposites and ceramics;
- Computational material science by **atomistic scale modelling** of technologically important materials and devices.



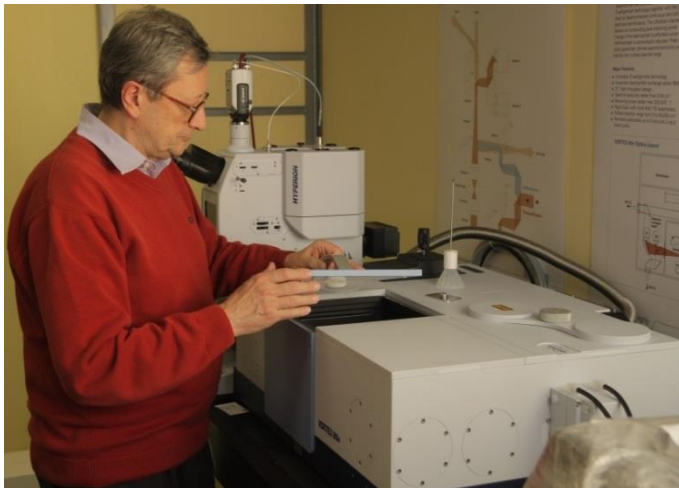
**TEM with 0.12 nm resolution
FEI TECNAI TF20 S-TWIN**



**SEM – FIB Complex
TESCAN LYRA3 XMU**



**Fourier Transform Infrared
vacuum Spectrometer
Bruker Vertex 80v**



**Non-Contact, 3D Optical Profiler
ZYGO NewView 7100**



CAMART² CURRENT INDUSTRIAL PARTNERS IN LATVIA:

DEVELOPMENT OF TECHNOLOGY AND EQUIPMENT FOR THIN FILMS AND COATINGS



Holding company «**SIDRABE**» -

-Leader in Baltic States in design and manufacturing of unique vacuum technology equipment for thin film deposition for:

- production of photo-voltaic cells and flat screen displays;
- fabrication of functionalized glass surfaces;
- roll-to-roll coated webs.



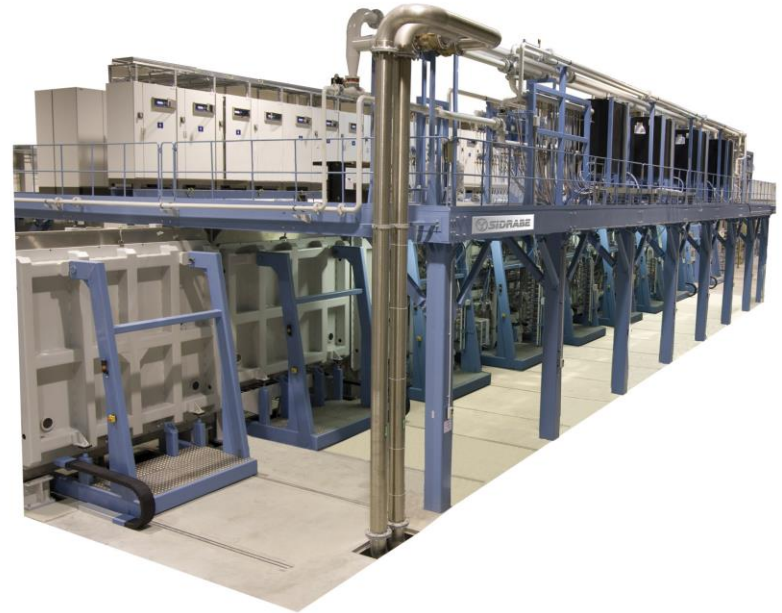
CAMART² CURRENT INDUSTRIAL PARTNERS IN LATVIA:



*DEVELOPMENT OF INNOVATIVE PRODUCTS
BASED ON THIN FILMS AND COATINGS*



GroGlass factory in Riga, Latvia



Holding company «**GROGLASS**»

- Major producer of **anti-reflective coatings on large (3350 mm x 2250 mm) glass sheets** :

to the Architectural, Technical, Picture Framing, Solar and Horticultural industries (received the best exporter 2012 award in Latvia).

CAMART² CURRENT INDUSTRIAL PARTNERS IN LATVIA:



*DEVELOPMENT OF INNOVATIVE PRODUCTS
BASED ON FUNCTIONAL MATERIALS FOR
ELECTRONICS AND PHOTONICS*

Holding company «**EuroLCDs**»

- Flat panel production and shutter type LCD products for:
 - industrial applications;
 - emerging 3D visualization applications.



“Ideas alone have little worth. The value of an innovation lies in its practical implementation.”

Werner von Siemens
letter to his brother Carl, 1865

