

## **The Institute of Physics of the CAS**

The Institute of Physics of the CAS /FZU/ is a public research institution oriented on fundamental and applied research in physics. It is the largest institute of the Czech Academy of Sciences with staff over 1200 researchers located at three premises in Prague and one in Olomouc.

## **The position**

The job opening is for the position of the **Head of the Laboratory of Electron Microscopy /LEM/**. The LEM is part of the Department of Material Analysis within the Condensed Matter Division. LEM is located in the main FZU site in the CAS campus Na Slovance in Prague 8 and has a planned staff of 6-8 researchers. Currently, it is supported from the research infrastructure project [Laboratory of Nanostructures and Nanomaterials /LNSM/](#).

## **The Laboratory LEM**

The laboratory operates scanning and transmission electron microscopes and supporting facilities, namely a dual beam SEM-FIB FEI Quanta 3D FEG and two transmission electron microscopes 120kV JEOL 1200EX and 200kV FEI Tecnai F20 X-Twin, equipped with STEM-HAADF, EDS, Lorentz microscopy and Gatan imaging filter Quantum. The laboratory offers electron microscopy services to the FZU research teams as well as to external users. Further activities involve development of SEM and TEM electron microscopy methods, user training and collaboration in research projects.

## **Responsibilities of the Head of the LEM**

As the Head of the Laboratory of Electron Microscopy you will be responsible for managing its operation, in particular for managing the operation of the equipment and staff as a user facility. Your particular responsibilities will include:

- managing efficient operation of the laboratory equipment
- developing a user access system to the laboratory including web based reservation system, user request handling system,
- developing a system for introduction, training and support of laboratory users
- building a network of experienced users of the laboratory equipment and methods from FZU research teams
- managing maintenance and repairs of the laboratory equipment
- introducing modern methods of transmission electron microscopy in FZU
- preparing project applications in the area of national support for infrastructure operation and for the development of novel electron microscopy methods and managing these projects
- promoting the laboratory research on the national as well as international level

## Requirements

- PhD in physics, chemistry, materials science, materials engineering or related fields
- At least 10 years of experience in transmission electron microscopy of inorganic materials
- Demonstrated ability to operate and maintain electron microscopes
- Experience in sample preparation methods
- Demonstrated ability to perform the TEM and SEM data analysis and interpretation of the results
- Fluency in English is required. Ability to communicate in Czech (or Slovak) is an advantage
- Demonstrated ability to lead a research unit, particularly to develop a forward planning strategy and vision for building and operating an experimental user facility.

## Application

- Applicants are requested to send their application materials **till May 1, 2017** to the address: **Personal department, Institute of Physics of the CAS, Na Slovance 2, 18221, Czech Republic**
- Application materials shall include:
  - a motivation letter,
  - CV
  - List of publications,
  - Recommendation letter from previous employer,
  - Names of three distinguished scientists with whom the application can be consulted

## Further information

- The position is full-time (40 hours per week)
- The position will be filled as soon as possible starting from the July 1, 2017.
- The starting salary will be set according to FZU standards in the range 1500-2500€/month gross as a function of experience

## Contact

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