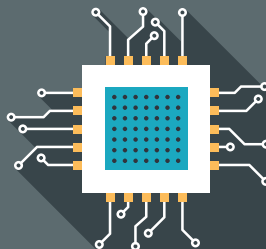


ADVANCED MATERIALS AND NANOSCIENCES

PhD SCHOOL

Join us at CEITEC,
join challenge!



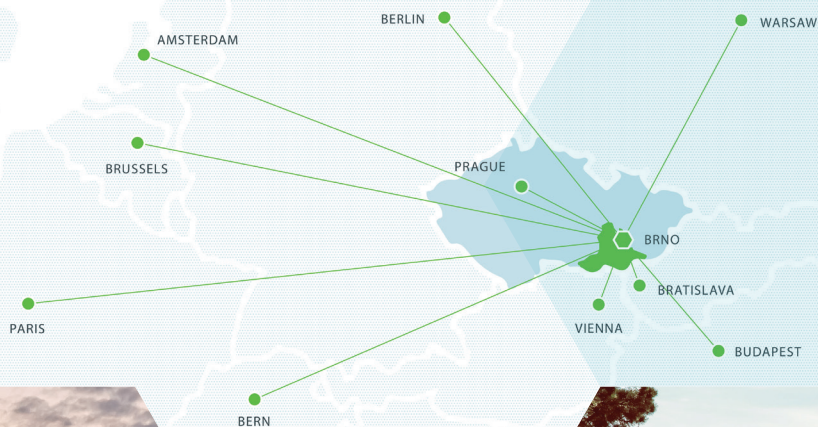
amn-phd.ceitec.cz

BRNO: One of the top rated student cities

The second largest city in the Czech Republic, Brno (pronounced Bir-no) is the historical capital and cultural hub of the Margraviate of Moravia. Brno is considerably less well-known than Prague, but it's almost on a par with the capital in delivering a great student experience. The city gets extremely strong ratings for tolerance and inclusivity, and ease of getting around, while also scoring very well for both affordability and nightlife. Students praised the attractiveness of the city, as well as the large and friendly student community.

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www.gotobrna.cz



Dear students,

new times bring new opportunities.
Opportunities that lead to
quality science with cutting-edge hardware
led by recognised scientists and experienced
educators.

For several years now, we've been building
a scientific research centre called CEITEC –
The Central European Institute of Technology.
It's been our aim to bring to Brno the best
international experts, to provide our scientists,
our students with the opportunities to work on
international projects, to travel on exchanges
and to realise their scientific dreams.

We want to be among the leading European
research centres. We dare to say that we're
achieving this and that we can offer you the
opportunity to join us and determine
the direction that CEITEC is taking.

We look forward to meeting you over the
coming school years in the the labs, halls
and classrooms and I'm sure that we'll be
able to discuss together our triumphs and
challenges and I hope that you will become
proud members of our team.

**Apply and show us that you are
the one we're looking for!**

Prof. Radim Chmelík

*Deputy Director for Science and Study
Affairs and inventor of coherence-
controlled holographic microscope*

But first.... Who we are?

CEITEC (Central European Institute of
Technology) is a young and dynamic
scientific research centre specialising in the
fields of life sciences, advanced materials
and nanotechnologies. We aim to engage
in scientific discovery on a global level
by providing researchers with the latest
equipment and cutting edge laboratory
facilities on an open access basis.

CEITEC is active in an ecosystem of top,
central EU universities such as Masaryk
University and Brno University of Technology
with access to over 60 thousand students,
and is involved in cooperation with leading
EU and global universities, companies and
public organisations.

CEITEC PhD SCHOOL



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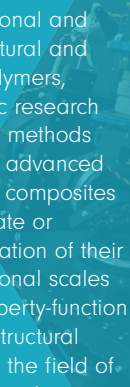
Our PhD school

Our Advanced Materials and Nanosciences program is based on mutual cooperation of two universities and one research institute within the CEITEC structure - **Brno University of Technology, Masaryk University and Institute of Physics of Materials of the Academy of Sciences.**

Advanced Nanotechnologies and Microtechnologies

Aimed at nanotechnologies covering materials and structures to be used in nanoelectronic and nanophotonic applications. It comprises the preparation, characterisation and analysis of the properties of nanostructures enabling an active application of principles that determine the unique and specific properties of nanostructures. Attention will be focused on research of 2D-0D nanostructures produced by lithographic (top-down) methods and self-organising (bottom-up) methods. It consider semiconductor nanostructures, magnetic and metallic nanostructures, nanotubes and nanofibres, etc. The interconnection of nanostructures with peripheries and special micro-circuits will also be researched.

Advanced Materials



Focused on advanced (functional and structural gradient, nanostructural and smart) ceramic materials, polymers, metals and composites. Basic research will be focused on advanced methods of synthesis (or preparing) of advanced materials and multifunctional composites with polymeric, ceramic, silicate or metallic matrixes, characterization of their structures on various dimensional scales and quantifying structure-property-function relationships on the various structural levels. Combined research in the field of advanced ceramic materials, polymeric composites and metallic composites will be focused on applications in medicine, chemistry and engineering.

Information about topics, application or other practicalities find on our PhD website

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