

PROJECT	Project focus - Key Words	Priority Axis	Project Webpages
Central European Institute of Technology (CEITEC)	<ul style="list-style-type: none"> • Advanced Nanotechnologies and Microtechnologies • Advanced Materials • Structural Biology • Genomics and Proteomics of Plant Systems • Molecular Medicine • Brain and Mind Research • Molecular Veterinary Medicine 	PA1	http://www.ceitec.eu/
St. Anne's University Hospital Brno - International Clinical Research Center (FNUSA-ICRC)	<p>Clinical research:</p> <p>Development of novel technologies, methods for semi-invasive or non-invasive early detection and advanced treatment of cardiovascular and neurological diseases, particularly heart failure, coronary heart disease, hypertension, cardiac arrhythmias, obesity, structural heart diseases, stroke.</p>	PA1	http://www.fnusa-icrc.org/en/
ELI: EXTREME LIGHT INFRASTRUCTURE	<p>Ultra high intensity lasers:</p> <ul style="list-style-type: none"> • Lasers generating repetition-rate ultrashort pulses and multi-petawatt peak powers • X-ray sources driven by ultrashort laser pulses • Particle acceleration by lasers • Applications in molecular, biomedical and material sciences • Plasma and high energy density physics • Exotic Physics and Theory 	PA1	http://www.extreme-light-infrastructure.eu/
Information Technology for Innovations (IT4I)	<p>Supercomputers:</p> <ul style="list-style-type: none"> • IT for Disaster and Traffic Management • Numerical Modelling for Engineering • Libraries for Parallel Computing • Modelling for Nanotechnologies • IT for Knowledge Management • Soft Computing Methods with Supercomputer Applications • Multimedia Information Recognition and Presentation • Secure and Safe Architectures, Networks, and Protocols 	PA1	http://www.it4i.eu/en/index.php
Biotechnology and Biomedicine Research Centre of the Academy of Sciences and the Charles University at Vestec (BIOCEV)	<ul style="list-style-type: none"> • Functional Genomics • Cell Biology and Virology • Structural Biology and Protein Engineering • Biomaterials and Cell Tissue Engineering • Development of New Therapeutic and Diagnostic Procedures 	PA1	http://www.biocev.eu/en.html
Sustainable energy (SUSEN)	<ul style="list-style-type: none"> • sustainable energy: nuclear energy technologies (thermonuclear synthesis with magnetic retention of plasma, nuclear fusion technology), processing and disposal of radioactive waste, analysing environmental impact of nuclear facilities, new ecological technologies for coal processing 	PA2	http://cvrez.protebe.info/

*For detailed information about the R&D centers concerned, please visit the respective webpages of the projects.