

Collaboration Activities between the JRC and Czech Republic

Summary

JRC and Czech partners have a good level of collaboration, established mainly through competitive activities and projects), nevertheless there is also a substantial number of institutional agreements.

At present JRC Institutes are collaborating with Czech partners in:

- 7 Collaboration Agreements (on topics such as: metrology in chemistry, nuclear emergency information)
- 11 Competitive Activities (on topics such as: air quality, environment, health)
- 37 FP7 Projects (on topics such as: waste management, nanomaterials, climate change, food, nuclear systems, soil, crisis management, industrial safety, freshwater ecosystems)
- 27 Institutional Networks (on topics such as: nuclear power plants, air quality, atmospheric emissions, chemical measurements, GMO, neutron research, environmental monitoring)

The JRC collaborates with different type of partners in Czech Republic ranging from national authorities and laboratories to academia, research institutes and businesses.

The partners with whom the JRC has collaborations are:

1. Ustav Jaderneho Vyzkumu Rez A.S. - 11
2. Ceska Zemedelska Univerzita V Praze - 8
3. Ministry Of Health - 7
4. Nuclear Research Institute Rez - 6
5. Ministry Of Environment - 5
6. Czech Hydrometereological Institute - 4
7. Gisat S.R.O. - 4
8. National Radiation Protection Institute - 4
9. Czech Metrology Institute - 4
10. Charles University In Prague - 3
11. State Office For Nuclear Safety - 3
12. Institute Of Chemical Process Fundamentals As Cr - 2
13. Energovyzkum Spol.S.R.O. - 2
14. Ceska Geologicka Sluzba - 2
15. National Institute Of Public Health - 2
16. Ministry Of The Interior - 2
17. Nuclear Physics Institute - 2
18. Univerzita Karlova V Praze - 2
19. Water Research Institute - 2

20. Vysoka Skola Chemicko-Technologicka V Praze - 2

And,

21. Agentura Pro Evropske Projekty&Management Sdruzeni, Biologicke Centrum Av Cr, V. V. I., Centrum Vyzkumu Rez S.R.O., Cesky Hydrometeorologicky Ustav, Ckd Export, A.S., Custom Technical Laboratory, Czech Agriculture And Food Inspection, Czech Technical University In Prague, Departement Of Analytical Chemistry (Institute Of Chemical Technology), Department Of Public Health, Earth Tech Cz Sro, Exbio Praha, Institute Of Atmospheric Physics, Institute Of Chemical Technology, Institute Of Inorganic Chemistry Academy Of Sciences, Institute Of Plasma Physics, Institute Of Public Health Ostrava - Centre Of Hygienic Laboratories, Masaryk University, Masarykova Univerzita, Mendel University Of Agriculture And Forestry, Regional Hospital Pardubice, Research Institute Of Crop Production, Saint-Gobain Weber Terranova A.S., State Veterinary Institution Jihlava, Statni Zdravotni Ustav, T-Soft Spol Sro, Urm - Utvar Rozvoje Hl.Mesta Prahy, Veterinary Research Institute, Vysok Skola Chemickotechnologick V Praze, Vysoka Skola Banska - Technicka Univerzita Ostrava, Vysoke Uceni Technicke V Brne, Vyzkumny Ustav Rostlinne Vyroby - 1

Collaboration Agreements

1. **Collaboration with Bicocca University of Milano (Italy)** between Czech Metrology Institute and IHCP
2. **Education and training in "Metrology in Chemistry"(MiC)** between Czech Metrology Institute & Departement of Analytical chemistry (Institute of Chemical Technology) and IRMM
3. **Euraqua Network** between Water Research Institute and IES
4. **EURDEP** between National Radiation Protection Institute and IES
5. **MOU - AQUILA** between Czech Hydrometereological Institute and IES
6. **Nuclear emergency information** between Ministry of the Interior & State Office for Nuclear Safety and IES
7. **REMdB** between National Radiation Protection Institute and IES

Competitive Activities

1. **EXIOPOL** between Charles University In Prague and IPTS
2. **Ensembles Consortium Agreement** between Charles University In Prague & Czech Hydrometereological Institute & Institute of Atmospheric Physics and IPSC
3. **EFNUDAT** between Nuclear Physics Institute and RMM
4. **IP EUCAARI** between Institute of Chemical Process Fundamentals AS CR and IES
5. **PROJECT EUSAAR** between Institute of Chemical Process Fundamentals AS CR and IES
6. **2-FUN** between Institute of Public Health Ostrava - Centre of Hygienic Laboratories and IHCP

7. **CARE-MAN** between EXBIO Praha & Regional Hospital Pardubice & Veterinary Research Institute and IHCP
8. **EXTREMAT IP** between Institute of Plasma Physics and IE
9. **BIOCOP** between Vysok škola chemickotechnologick v Praze and IRMM
10. **NULIFE** between Nuclear Research Institute Rez and IE
11. **ISP 1** between Ceske Vysoke Uceni Technicke V Praze & Ceske Vysoke Uceni Technicke V Praze and IE

FP7 Projects

1. **ACRIMAS**, Demonstration; cross-border cooperation; knowledge transfer; CD&E, scenario approach; testbed - T-SOFT SPOL SRO
2. **ACSEPT**, partitioning ; actinides recycling ; waste management ; sustainable nuclear energy systems - Ceske Vysoke Uceni Technicke V Praze & Charles University In Prague & Institute Of Inorganic Chemistry Academy Of Sciences Of Czech Republic & Ustav Jaderneho Vyzkumu Rez A.S.
3. **ADRIANA**, demonstrator, diagnostics, experimental reactor, fast neutron, framework programme, gas cooled reactor, hot cells, instrumentation, integration, irradiation, knowledge dissemination, lead cooled react - Centrum Vyzkumu Rez S.R.O. & Ustav Jaderneho Vyzkumu Rez A.S.
4. **AEGOS**, Africa, georesource, sustainable development, data management, interoperability, Inspire, Geoss - Ceska Geologicka Sluzba
5. **ARCAS**, ADS, Fast Reactors, P&T, minor actinide transmutation, Sra, Snetp - Ustav Jaderneho Vyzkumu Rez A.S.
6. **BACSIN**, abiotic stress, bioremediation, pollutant degradation, bacteria, functional genomics, formulations, microbial communities - Earth Tech Cz Sro
7. **CLEAR-UP**, nanomaterials, retrofitting, automatic dissemination, energy efficient and healthy buildings - Ceske Vysoke Uceni Technicke V Praze & Saint-Gobain Weber Terranova a.s.
8. **CLIMATECOST**, Climate Change, Greenhouse Gases, Stabilisation, Kyoto, Economics, Adaptation, Mitigation, Abatement, Cost of inaction, Benefits, Socially contingent events, Ancillary impacts, Models, Quantification - Univerzita Karlova V Praze
9. **CONFIDENCE**, Food, feed, contaminant, detection, rapid, screening, multi, control, monitoring, exposure, safety - Vysoka Skola Chemicko-Technologicka V Praze
10. **COPHES**, HBM, COPHES II, Human Biomonitoring, EU Network, E&H Action Plan - Statni Zdravotni Ustav
11. **CP-ESFR**, Innovative Nuclear Systems; Sodium Fast Reactor ; Generation IV - Energovyzkum Spol.S.R.O. & Ustav Jaderneho Vyzkumu Rez A.S.
12. **CROSSROAD**, Roadmap, ICT, Governance, Policy Modeling, eGovernment - Agentura Pro Evropske Projekty&Management Sdruzeni
13. **E-SOTER**, Soil and Terrain database, remote sensing, applications, web portal - Ceska Zemedelska Univerzita V Praze

14. **EVOL**, Gen IV system Innovative fast neutron reactor Fuel processing Molten salt chemistry High temperature materials - Energovyzkum, spol. s r.o.
15. **GEOLAND2**, GMES; land monitoring core service - Gisat S.R.O.
16. **GETMAT**, Materials, Generation IV, ADS, Fusion, ODS & F/M alloys, corrosion protection, weld, irradiation, modeling - Ustav Jaderneho Vyzkumu Rez A.S.
17. **G-MOSAIC**, Crisis management, GMES, Security, geo-spatial intelligence, crisis indicators, regional crises, threat warning factors - Gisat S.R.O.
18. **GOFASTR**, Gas cooled fast reactor, GFR, Generation IV, fast reactors, sustainable nuclear energy systems, transmutation, Sne-Tp - Ustav Jaderneho Vyzkumu Rez A.S.
19. **INTEG-RISK**, emerging risks, new technologies, lead markets, time to market, EU competitiveness, key performance indicators (KPIs) for emerging risks - Vysoka Skola Banska - Technicka Univerzita Ostrava
20. **IRIS**, Industrial Safety, Online Risk Assessment, Safety Concept, Monitoring Systems, Decision Support System - Ceske Vysoke Uceni Technicke V Praze
21. **ISOIL**, geophysics, spectroscopy, pedophysics, pedometrics, soil mapping, soil properties, functions, threats - Ceska Zemedelska Univerzita V Praze & Vyzkumny Ustav Rostlinne Vyroby
22. **LEADER**, LFR, proliferation, sustainability, lead, nuclear, fast reactor, GIF, Generation IV, Etp - Ustav Jaderneho Vyzkumu Rez A.S.
23. **LONGLIFE**, RPV Neutron irradiation embrittlement, Long Term Operation, Ageing Management, Late Blooming Effect Flux Effect - Ustav Jaderneho Vyzkumu Rez A.S.
24. **MACC**, ilot GMES Atmospheric Service - Cesky Hydrometeorologicky Ustav
25. **M-ECO**, Public Health Event Detection, Personalization, User Generated Content - Vysoke Uceni Technicke V Brne
26. **MEGAPOLI**, urban, regional and global atmospheric pollution; megacities; hot spots; climate effects, integrated models and tools; assessment; mitigation - Univerzita Karlova V Praze
27. **NANOLYSE**, engineered nanoparticles, food safety, reference materials, imaging, electron microscopy, mass spectrometry - Vysoka Skola Chemicko-Technologicka V Praze
28. **POWERFUL**, Powertrain; CO2 reduction - Ceske Vysoke Uceni Technicke V Praze
29. **RECOZY**, redox reactions, radionuclide transport, Safety case - Ustav Jaderneho Vyzkumu Rez A.S.
30. **REFRESH**, Freshwater ecosystems, climate & land use change, adaptation, mitigation, restoration, integration - Biologicke centrum AV CR, v. v. i.
31. **SAFER**, Emergency response, Civil protection, Humanitarian aid, Crisis management, Risk, rapid mapping, Inscrit, Eracs, Floods, Fires, Volcanoes, Landslides, Earthquakes, Reference Maps, Assessment Maps - Gisat S.R.O.
32. **SARNET2**, SARNET ; severe accident ; network of excellence ; ASTEC ; corium ; containment ; source term - Ustav Jaderneho Vyzkumu Rez A.S.
33. **SOILTREC**, Soil Critical Zone; mathematical model; soil life-cycle; sustainability; soil-functions; soil-processes; ecosystem services; policy - ceska geologicka sluzba

34. **SOMALOX**, Oxy-fuel combustion, lignite power plants, retrofitting, carbon storage - Ckd Export, a.s.
35. **STYLE**, Structural integrity assessment, lifetime management, assessment tools, ageing , weld repair - Ustav Jaderneho Vyzkumu Rez A.S.
36. **TATOO**, Discovery Tools, Climate Change, Validation Scenarios, Semantic Framework, Environmental User Communities, Information Enhancement, Decision Support, Data Quality - Masarykova univerzita
37. **TRANSPHORM**, Transport; Air pollution; Particulate matter; Health impacts; Integrated assessment; Full chain; Exposure; Modelling; Concentration-response functions; Ultrafine; PM1; PM2.5; PM10; Particle number - URM Utvar Rozvoje HI.Mesta Prahy

Institutional Networks

1. **AcadeMiC** between Czech Technical University in Prague and IRMM
2. **AMES** between Nuclear Research Institute Rez and IE
3. **AQUILA** between Czech Hydrometereological Institute and IES
4. **C&I** between Czech Hydrometereological Institute & Ministry of Environment and IES
5. **EU NCTM** between Ministry of Environment & Ministry of Health of Czech Republic and IHCP
6. **EurAqua** between Water Research Institute and IES
7. **EUROMET** between Czech Metrology Institute and IRMM
8. **ENIQ** between Nuclear Research Institute Rez and IE
9. **ENGL** between Czech Agriculture and Food Inspection & Institute of Chemical Technology & National Institute of Public Health & Research Institute of Crop Production & State Veterinary Institution Jihlava and IHCP
10. **INSPIRE** between Masaryk University & Ministry of Environment and IES
11. **Landscape Tomorrow** between Mendel University of Agriculture and Forestry and IES
12. **Member States Official Laboratories For The Eu Wine Databank** between Custom Technical Laboratory and IHCP
13. **NESC** between Nuclear Research Institute Rez and IE
14. **NET** between Nuclear Research Institute Rez and IE
15. **Official Crl-Nrl Network On Food Contact Material** between Department of Public Health & National Institute of Public Health and IHCP
16. **RadioisoCancer** between Nuclear Physics Institute and ITU
17. **REM - ECURIE** between Ministry of the Interior & State Office for Nuclear Safety and IES
18. **REM - EURDEP** between National Radiation Protection Institute and IES
19. **REM - REMdb** between National Radiation Protection Institute and IES

20. **TC NES** between Ministry of Environment & Ministry of Health and IHCP
21. **TC C&L** between Ministry of Health and IHCP
22. **TM Biocides** between Ministry of Health and IHCP
23. **QSAR WG** between Ministry of Health and IHCP
24. **TrainMiC** between Czech Metrology Institute and IRMM
25. **TUnet** between Nuclear Research Institute Rez & State Office for Nuclear Safety and ITU
26. **WG EDEXIM** between Ministry of Environment & Ministry of Health and IHCP
27. **WG PBT** between Ministry of Health and IHCP