

GEOS-SCIENCES

UNIVERSITY OF LORRAINE, FRANCE

(Nancy Campus)

Mobility for Training activity ENSG Nancy (Master students)	Mobility for research activity Geo Ressource (Master & PhD students)
contact : mines-nancy-dai@univ-lorraine.fr	contact : irina.panfilova@univ-lorraine.fr
5 months (1 semester)	5 months
<p style="text-align: center;">PROGRAM (program taught in French)</p> <p>Semester 7:</p> <ul style="list-style-type: none"> • Geochemistry, Geophysics, Geotechnical engineering, Data mining, Analytic tools for rock identification <p>Semester 8:</p> <ul style="list-style-type: none"> • Groundwater modeling, Environmental geochemistry, Facies analysis, Stratigraphy, Petroleum systems, Rock mechanics, Underground constructions, Diagenesis, Mineral processing <p>Semester 9:</p> <ul style="list-style-type: none"> • Water resource and Environment, Geotechnics, Georesources engineering, Geology and energies, Numerical geology <p style="text-align: center;">GRADUATE PROGRAM ON “RESERVOIR ENGINEERING” (program taught in English)</p> <p>Semester 8:</p> <ul style="list-style-type: none"> • Phenomena at gas-liquid interface • Multiphase flow in gas storages and reservoirs • Geological storage of energy • Modelling of recovery methods and storages • Petroleum Systems • Fluid-rocks interactions <p>Semester 9:</p> <ul style="list-style-type: none"> • Reservoir drive mechanisms • Enhanced Oil Recovery • Thermodynamics & phase transitions • Oil & gas reservoirs and storages • Physicochemical hydrodynamics • Numerical simulation of EOR • Economics of energy 	<p style="text-align: center;">(French or English speakers)</p> <p>Research Areas:</p> <ul style="list-style-type: none"> • Petrophysics • Mineralogy • Geochemistry • Cristallogenesis • Rock mechanics • Transport processes in porous media • Geomodelling

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| <ul style="list-style-type: none">• Wells: drilling, production, testing• Unconventional reservoirs of energy | |
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Semester 10:

- 4-6-Month Research